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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1896

(VOL. XIII.—THIRD SERIES)

METEOROLOGICAL OFFICE
8 SEP 97

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY SUPPLEMENTS AND TWO APPENDICES.

Published by the Authority of the Meteorological Council.

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1897.

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ERRATA.

MONTHLY SUMMARIES.

January, p. iv.	Hastings.—Total rainfall should be 1·35 ins.; and difference — 1·44 ins. Churchstoke.—Total number of hours of bright sunshine should be 47·3; and difference + 0·7 hour; and percentage of possible duration 19; difference 0·0 hour.
February, p. viii.	Llandovery.—The difference from average of mean of minimum and maximum temperature combined should be + 2°·2.
April, p. xiv. p. xvi.	Malin Head.—Total rainfall should be 2·33 ins. Armagh.—Total rainfall should be 1·29 ins.; and difference — 0·73 in.
May, p. xx.	Londonderry.—Total rainfall should be 1·06 ins.; difference — 1·35 ins. and 11 rainy days.
June, p. xxiv.	Cheadle.—Total rainfall should be 3·09 ins.; and difference + 0·24 in.
July, p. xxviii.	Hereford.—Mean of minimum temperature should be 51°·6; mean of minimum and maximum temperature combined should be 62°·3; and difference + 1°·5.
August, p. xxxii.	Hereford—Total rainfall should be 2·13 ins.; and difference — 0·31 in.
September, p. xxxvi.	Hereford.—Mean of minimum temperature should be 48°·9, and mean of minimum and maximum temperature combined should be 55·6. Hastings.—Total rainfall should be 5·59 ins.; difference + 2·89 ins.; and 23 rainy days.
October, p. xl.	Killarney.—Total rainfall should be 4·19 ins.

PREFACE.

In the Weekly Weather Report for 1896 the general arrangement of the weekly Remarks and Tabular matter is unaltered, and will be found on the first and second pages of each Report. The Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

Monthly Summaries of the observations made at the stations included in the Daily and Weekly Weather Reports again appear as a Supplement.

Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

The general arrangement of the Weekly Report is as follows:—

LIST OF DISTRICTS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong:—

METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick, Lairg, Glencarron, Fort Augustus, Fort William.
1. SCOTLAND, E.—Nairn, Aberdeen, Braemar, Ochtertyre, Leith, Marchmont.
2. ENGLAND, N.E.—Alnwick Castle, Durham, Shields, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry, Loughborough, Stamford (Ketton Hall and Duddington), Cheadle, Shirley (near Solihull), Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, North Foreland, Dungeness, Hastings, Southampton, Hurst Castle, Stowell.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Glenlee, Douglas (Isle of Man).
7. ENGLAND, N.W.—Stonyhurst, Blackpool, Manchester (Prestwich), Liverpool Observatory, Llandudno, Holyhead.
8. ENGLAND, S.W.—Llandovery, Pembroke, Clifton, Arlington, Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Malin Head, Londonderry, Edenfel, Belmullet, Markree Castle, Armagh, Donaghadee, Edgeworthstown.
10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Roche's Point, Valencia, Killarney, Foynes.

There are in addition two stations in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (St. Aubin's), which cannot be conveniently placed in any of the Districts. Records from stations which supply Sunshine only, are given on the fourth page of each Report.

WEEKLY SUMMARY.

The Summary on the first page of each Report gives for each week and district the absolute *maximum* and *minimum* temperatures observed, the averages of both the daily extremes, the daily average, and its difference from the mean of the corresponding period, as derived from observations of the 25 years 1871–95, together with the values for "Accumulated" temperature above and below 42° F.

Daily Mean Temperature.

The daily mean Temperature shown in the Tables is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima:—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example:

	°
The mean maximum temperature for a week in December being	48·1
The mean minimum	39·3
The difference is	8·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean daily temperature of the week.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects

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to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply:—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F., or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in Rules 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4; for 52° F., 0·33; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

RAINFALL.

The Summary on the first page of each Report gives for each week and each District the number of rainy days, and the total fall of rain, as well as the progressive values reckoned from the commencement of the year, and the difference between these amounts and the means for the corresponding week in the 30 years 1866–95.

BRIGHT SUNSHINE.

The Summary on the first page gives for each week and each District the numbers of hours of sunshine recorded, and the per-centage of that time to the whole time during which the sun is above the horizon; also the progressive values reckoned from the commencement of the year, together with the difference between them and the mean for the corresponding period in the 15 years 1881 to 1895.

SUPPLEMENT AND APPENDICES.

Supplement.—Consists of twelve Summaries of the results of the Observations made at the Stations included in the Daily and Weekly Weather Reports during each of the Calendar months. Each Summary is illustrated by a lithographed plate showing the distribution of Pressure, Air Temperature, and Rainfall during the month, and the prevalence of wind from various quarters.

Appendix I.—This contains (1) Summaries for each Quarter and for the whole year, of the Temperature and Rainfall records for each District, from 1866 to 1896, and (2) Tables giving for each district the monthly values for Rainfall, Accumulated Temperature (above and below 42° F.), and Bright Sunshine, as well as the progressive values for each from the commencement of the year, in continuation of the values given in Appendix I. for last year.

Appendix II. gives for the year 1896, and for each District, the weekly and progressive numbers of Rainy days, the Amounts of Rainfall, and the values for Accumulated Temperature (above and below 42° F.), and Bright Sunshine, in continuation of the values for the year 1895 printed in Appendix II. to the Weekly Weather Report for last year.

Tables showing for each degree of Latitude from 49° N. to 58° N., and for each Weekly and Monthly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to Vol. I., Second Series.

TABLE SHOWING THE REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

DATE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Per-centage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
Week ending Dec. 26	Stowell	53	21	40·5	29·0	35·0	− 2·9	0	49	4	0·70	−0·02	—	—	—	—
„ Jan. 2, 1897	Stowell	52	26	47·9	35·0	41·7	+ 3·8	17	30	5	0·61	−0·16	—	—	—	—

N.B.—The values for the earlier weeks have already appeared on the last page of the different weekly reports.

THE following is a LIST of the OBSERVERS who have furnished Information voluntarily for Publication in the WEEKLY WEATHER REPORT, 1896, together with the NAMES of their STATIONS and their ALTITUDE above the MEAN SEA LEVEL:—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Alnwick Castle	210	Humphrey J. Willyams, for the Duke of Northumberland, K.G.	
Arley Cottage (Co. Cavan).	225	Lord Farnham, F.R.A.S.	Sunshine only.
Arlington (North Devon).	613	W. Stewart, for Lady Chichester.	
Armagh	207	Staff of Observatory.	
Blackpool ℳ	31	A. J. Anderson.	
Braemar 𝒮	1,114	J. A. Aitken, J.P.	
Brighton	65	A. Newsholme, M.D.	Sunshine only.
Clifton	230	D. Rintoul.	
Cheadle ℳ	646	J. C. Philips.	
Churchstoke ℳ	539	P. Wright, F.C.S., F.R. Met. Soc.	
Cirencester	446	The Royal Agricultural College.	
Colwyn Bay	?	R. E. Lord, M.D., B.Sc.	Sunshine only.
Cullompton ℳ	202	J. Turner, F.R. Met. Soc.	
Douglas, Isle of Man.	137	A. W. Moore, M.A., J.P.	
Dublin	51	J. W. Moore, M.D., F.R. Met. Soc.	
Durham	335	H. J. Carpenter.	
Eastbourne	120	R. Sheward, F.R. Met. Soc.	Sunshine only.
Edgeworthstown	265	J. M. Wilson, J.P.	
Edinburgh	262	R. C. Mossman	Sunshine only.
Falmouth	210	Staff of Observatory.	
Fort Augustus 𝒮	75	Rev. M. Wall.	
Fort William 𝒮	37	R.T.Omond for Directors of Obsy.	
Foynes	108	W. Ward, for Lord Monteagle, K.P.	
Geldeston	37	E. T. Dowson, F.R. Met. Soc.	
Glasgow	184	Staff of Observatory.	
Glencarron 𝒮	504	D. D. Munro, for Lord Maclaren.	
Glenlee 𝒮	230	W. Melville, for Prince Smith.	
Guernsey	222	F. E. Carey, M.D., F.R. Met. Soc.	Sunshine only
Hastings	116	H. Colborne, M.R.C.S.	
Hereford ℳ	274	T. A. Chapman, M.D.	
Hesley Hall, Bawtry	65	B. J. Whitaker.	

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Hillington ℳ	88	Rev. H. E. B. Ffolkes, M.A., F.R. Met. Soc.	
Kilkenny	212	H. Carlton, for the Marquis of Ormonde, K.P.	
Killarney	110	The Ven. Archdeacon Wynne.	
Lairg	? 335	D. Macrae, B.D.	
Laudale	14	A. Fletcher, for T. G. H. Newton, M.A., F.R. Met. Soc.	
Llandovery	217	J. Watkins, F.R. Met. Soc.	
Llandudno ℳ	79	J. Nicol, M.D., F.R. Met. Soc.	
Londonderry	93	J. Conroy, F.R. Met. Soc.	
Manchester (Oldham Rd.)	190	J. Niven, M.A., M.B.	Sunshine only.
Marchmont 𝒮	500	P Loney and J. S. Wood, for Sir H. P. Campbell, Bt.	
Margate	134	J. Stokes, F.R. Met. Soc.	Sunshine only.
Markree Castle	131	A. Marth, F.R.A.S., for Col. Cooper, F.R.A.S.	
Newquay	200	J. Pearce	Sunshine only.
Ochtertyre 𝒮	333	G. Croucher.	
Omagh (Edenfel)	300	Col. Buchanan, F.R. Met. Soc.	
Oswaldkirk	510	R. Thompson	Sunshine only.
Plymouth	125	H. Victor Prigg.	
Prestwich	294	T. R. H. Clunn, M.D., F.R. Met. Soc.	
Rothamsted	368	Sir J. B. Lawes, Bart., LL.D., F.R.S., Sir J. H. Gilbert, Ph. D., F.R.S., and T. Wilson, F.R. Met. Soc.	
Scarborough ℳ	157	Dr. H. G. H. Monk.	
Southampton	74	J. T. Cook, R.E., the Ordnance Survey Office.	
Southport	?	J. Baxendell	Sunshine only.
Stonyhurst	360	Staff of Observatory.	
Stowell ℳ	376	Rev. H. J. Poole, F.R. Met. Soc.	
Tenby	?	J. E. Gower	Sunshine only.
Thurcaston	253	Rev. T. A. Preston, M.A., F.R. Met. Soc.	Sunshine only.
Torquay	286	A. Chandler, F.R. Met. Soc.	Sunshine only.
Westbourne	30	L. B. Birkett	Sunshine only.
Worksop	112	H. Mellish, J.P., F.R. Met. Soc.	Sunshine only.
York	105	J. E. Clark, B.A.	Sunshine only.

Stations marked "ℳ" report through the Royal Meteorological Society; those marked "𝒮" through the Scottish Meteorological Society.
NOTE.—In cases where "Sunshine only" is received the altitudes quoted were those of the Recorders, not of the ground.

WEEKLY WEATHER REPORT.

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VOL. XIII. No. 1.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 4TH, 1896. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 2.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	29	45·5	38·9	42·3	4 above	15	+10	9	−33	15	+ 10	9	− 33
	1. SCOTLAND, EAST	53	26	44·7	36·8	40·9	4 above	8	+ 2	21	−22	8	+ 2	21	− 22
	2. ENGLAND, N.E.	55	30	46·0	39·6	43·4	6 above	20	+14	7	−32	20	+ 14	7	− 32
	3. ENGLAND, EAST	55	31	48·3	39·9	44·3	7 above	25	+18	6	−39	25	+ 18	6	− 39
	4. MIDLAND COUNTIES	57	30	49·4	41·1	45·4	8 above	28	+20	3	−42	28	+ 20	3	− 42
	5. ENGLAND, SOUTH	56	32	49·0	42·1	45·6	6 above	25	+14	0	−37	25	+ 14	0	− 37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	33	47·2	41·0	44·2	5 above	20	+11	3	−28	20	+ 11	3	− 28
	7. ENGLAND, N.W.	56	32	49·7	43·0	46·4	7 above	31	+23	0	−33	31	+ 23	0	− 33
	8. ENGLAND, S.W.	55	35	50·4	44·7	47·6	6 above	39	+25	0	−27	39	+ 25	0	− 27
	9. IRELAND, NORTH	53	39	50·1	44·0	47·2	7 above	36	+25	0	−28	36	+ 25	0	− 28
	10. IRELAND, SOUTH	57	39	52·5	47·1	49·9	8 above	55	+38	0	−23	55	+ 38	0	− 23
	—CHANNEL ISLANDS	55	36	51·5	47·1	49·4	5 above	52	+29	0	−11	52	+ 29	0	− 11

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 2.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week.	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	8 less	5	0	0·6	− 0·8	3	− 2	7	− 3	2	− 2	7	− 3
	1. SCOTLAND EAST	5	5	1 less	5	+ 2	0·5	− 0·1	2	− 5	4	−11	2	− 5	4	− 11
	2. ENGLAND, N.E.	5	7	2 more	5	+ 1	0·7	− 0·2	1	− 7	1	−14	1	− 7	1	− 14
	3 ENGLAND, EAST	5	5	0 (average)	5	+ 1	0·5	0·0	1	− 9	3	−17	1	− 9	3	− 17
	4. MIDLAND COUNTIES	4	4	2 less	4	+ 1	0·4	− 0·2	2	− 8	3	−16	2	− 8	3	− 16
	5. ENGLAND, SOUTH	3	3	3 less	3	0	0·3	− 0·3	3	− 8	5	−15	3	− 8	5	− 15
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	3 less	5	+ 1	0·9	− 0·3	1	− 7	2	−14	1	− 7	2	− 14
	7. ENGLAND, N.W.	4	6	2 less	4	0	0·6	− 0·2	2	− 6	4	− 9	2	− 6	4	− 9
	8. ENGLAND, S.W.	4	5	4 less	4	0	0·5	− 0·4	3	− 9	6	−15	3	− 9	6	− 15
	9. IRELAND, NORTH	5	8	0 (average)	5	+ 1	0·8	0·0	3	− 7	5	−14	3	− 7	5	− 14
	10. IRELAND, SOUTH	5	7	2 less	5	+ 1	0·7	− 0·2	2	−10	4	−19	2	− 10	4	− 19
	—CHANNEL ISLANDS	5	7	2 less	5	0	0·7	− 0·2	4	− 8	7	−14	4	− 8	7	− 14

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very dull and gloomy in all parts of the Kingdom. Rain was of almost daily occurrence during the earlier part of the week, but later on the conditions became dry, with, however, a good deal of fog or mist.

Temperature was much above the mean, the excess ranging from 4° in Scotland N. and E., to 7° in England E. and N.W., and in Ireland N. and to 8° in the Midland counties and Ireland S. The highest of the maxima were recorded on rather irregular dates; they were very high for the time of year, varying from 57° in the Midland counties and Ireland S., and 56° in England S. and N.W., to 51° in Scotland N. The lowest of the minima were registered on the first day of the period in most places, but on January 4th in the north and east of Scotland. They ranged from 26° in Scotland E., and 29° in Scotland N., to 36° in the Channel Islands, and to 39° in the Irish districts.

Rainfall slightly exceeded the mean in England N.E., and just equalled it in England E. and Ireland N., but was less in all other districts.

Bright Sunshine was very deficient, the percentage of the possible duration ranging from 7 in Scotland N. and the Channel Islands, to 2 in Scotland W., and to 1 in England N.E.

Barometer and Wind.—During the earlier half of the period depressions appeared over or to the westward of our western and north-western coasts, causing Southerly winds in the north, and South-Westerly to Westerly breezes in the west and south. As the week progressed, however, an anticyclone was formed in the east and south-east, and spreading gradually westwards, caused Easterly and South-Easterly winds to set in over nearly the whole Kingdom.

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213 70 1|96 1896

II.—DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	47	36	44·1	39·4	41·8	+ 2·6	6	11	7	0·69	−0·22	*	*	*	*
	Stornoway	49	34	46·4	39·7	43·2	+ 4·4	18	6	3	0·51	−0·72	5·6	− 1·0	12	− 1
	Wick	49	36	44·9	39·1	42·1	+ 4·4	13	8	5	0·24	−0·36	*	*	*	*
	Glencarron ⚓	50	29	44·8	37·0	41·1	+ 3·9	8	21	5	0·92	−1·32	*	*	*	*
	Fort Augustus ⚓	51	29	46·2	37·8	42·2	+ 4·2	19	12	4	0·32	−0·76	0·1	− 3·0	0	− 7
	Fort William ⚓	50	34	46·5	40·3	43·5	+ 4·1	18	5	6	0·93	−1·20	3·7	− 0·7	8	− 3
1. SCOTLAND, E.	Nairn	52	31	45·3	35·1	43·4	+ 3·1	9	28	7	0·27	−0·18	*	*	*	*
	Aberdeen	50	32	44·7	39·1	42·0	+ 4·5	8	8	5	0·34	−0·26	5·2	− 5·1	11	−11
	Braemar ⚓	45	26	40·9	31·8	36·5	+ 2·3	0	39	3	0·34	−0·36	1·0†	− 2·5†	2†	− 6†
	Ochtertyre ⚓	50	31	44·0	36·9	40·6	+ 4·4	6	20	5	0·79	−0·24	*	*	*	*
	Leith	53	30	48·1	39·6	44·0	+ 5·1	24	7	5	0·59	+0·17	*	*	*	*
	Marchmont ⚓	49	34	45·1	38·3	41·8	+ 5·7	9	16	7	0·84	+0·19	0·0	− 9·8	0	−17
2. ENGLAND, N.E.	Alnwick Castle	50	32	45·7	39·6	42·8	+ 5·3	16	7	7	1·10	+0·51	*	*	*	*
	Durham	52	32	46·4	39·7	43·2	+ 6·8	18	6	6	0·83	−0·02	0·0	−10·0	0	−19
	Shields	53	31	47·3	39·4	43·5	+ 5·2	21	7	4	0·56	+0·09	*	*	*	*
	Scarborough ⚓												*	*	*	*
	York	55	30	49·6	40·1	45·0	+ 7·7	29	5	5	0·56	+0·09	0·2	− 6·4	0	−11
	Spurn Head	50	33	45·7	39·4	42·7	+ 4·4	16	7	5	0·55	+0·15	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	52	38	48·8	42·1	45·6	+ 9·1	25	0	5	0·46	−0·04	0·0	− 9·7	0	−18
	Yarmouth	52	32	46·9	38·1	42·7	+ 5·1	21	11	6	0·53	+0·03	*	*	*	*
	Geldeston	53	37	47·9	39·8	44·0	+ 6·0	23	6	6	0·53	+0·11	0·0	−11·3	0	−21
	Cambridge	55	31	49·0	40·1	44·7	+ 7·5	27	5	4	0·39	+0·01	2·5	− 7·3	5	−16
	Rothamsted	54	32	48·7	39·6	44·3	+ 7·2	26	7	4	0·33	−0·22	3·2	− 6·6	6	−13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	30	49·6	41·0	45·5	+ 8·4	29	3	6	0·76	+0·31	*	*	*	*
	Loughborough	57	31	50·7	41·4	46·2	+ 9·3	32	2	1	0·35	−0·13	*	*	*	*
	Stamford (Ketton Hall)	55	30	50·0	40·7	45·5	+ 8·6	30	4	4	0·41	−0·07	*	*	*	*
	Cheadle ⚓	52	37	47·8	41·7	44·9	+ 8·2	22	1	4	0·42	−0·24	*	*	*	*
	Solihull	54	31	47·9	40·0	44·1	+ 7·1	23	6	3	0·37	?	*	*	*	*
	Churchstoke ⚓	53	31	49·7	40·6	45·3	+ 7·6	29	4	5	0·20	−0·44	0·7	− 9·3	1	−19
	Hereford ⚓	54	32	49·2	41·5	45·5	+ 7·3	27	1	1	0·11	−0·44	*	*	*	*
	Cirencester	53	30	50·1	40·9	45·7	+ 8·5	31	3	5	0·66	+0·01	2·4	− 9·2	4	−17
	Oxford	54	33	49·4	42·1	45·9	+ 7·7	27	0	3	0·34	−0·14	3·1	− 7·6	6	−13
5. ENGLAND, S.	London	56	32	49·1	40·6	45·0	+ 6·1	27	4	3	0·36	−0·12	0·9†	− 4·6†	2†	− 8
	North Foreland	54	35	48·7	41·1	45·1	+ 6·1	25	3	4	0·53	?	*	*	*	*
	Strathfield Turgiss ⚓	54	32	49·2	40·2	44·9	+ 7·3	27	5	3	0·22	−0·30	*	*	*	*
	Dungeness	52	37	47·9	41·4	44·8	+ 5·2	22	2	2	0·36	−0·22	*	*	*	*
	Hastings (St. Leonards)	53	38	49·3	42·5	46·0	+ 6·2	28	0	3	0·42	−0·20	1·0	−10·2	2	−19
	Southampton	54	38	49·7	44·1	46·9	+ 7·0	34	0	3	0·32	−0·39	2·0	− 9·2	4	−17
	Hurst Castle	51	37	48·9	43·9	46·5	+ 6·1	32	0	4	0·21	−0·42	*	*	*	*
	Stowell ⚓	54	36	48·8	42·5	45·8	+ 7·4	27	0	4	0·26	−0·47	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	?	39	?	41·7	?	?	?	?	5	1·04	−0·96	*	*	*	*
	Glasgow	50	33	46·6	41·0	43·9	+ 5·7	18	3	4	0·81	−0·07	0·0	− 4·8	0	−10
	Ardrossan	48	33	46·7	39·7	43·3	+ 5·2	19	6	6	0·59	−0·26	*	*	*	*
	Glenlee ⚓	50	34	45·4	38·5	42·1	+ 4·6	15	10	6	1·19	−0·36	*	*	*	*
	Douglas (Isle of Man)	52	42	50·1	44·7	47·5	+ 6·7	39	0	5	1·04	+0·02	1·8	− 8·5	4	−17
7. ENGLAND, N.W.	Stonyhurst	52	35	48·4	43·0	45·8	+ 8·3	27	0	4	1·28	+0·30	0·0	− 8·3	0	−15
	Blackpool ⚓	51	32	49·5	41·1	45·5	+ 7·3	28	2	2	0·43	−0·24	0·3	− 8·1	1	−14
	Manchester (Prestwich)	52	39	48·6	42·8	45·8	+ 8·4	27	0	4	0·66	−0·11	0·0	?	0	?
	Liverpool Obsy. (Bidston)	54	32	50·6	41·9	46·4	+ 7·1	31	0	5	0·31	−0·17	*	*	*	*
	Llandudno ⚓	56	41	51·7	45·3	48·6	+ 7·4	46	0	3	0·33	−0·34	10·0	+ 1·1	19	+ 2
	Holyhead	51	38	49·1	43·7	46·5	+ 4·2	32	0	5	0·37	−0·43	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	35	49·6	41·7	45·8	+ 5·2	28	1	5	0·59	−0·60	*	*	*	*
	Pembroke	51	36	49·1	44·6	46·9	+ 3·8	34	0	4	0·47	−0·40	1·4	−10·3	3	−17
	Bristol (Montpelier)	53	36	50·0	44·1	47·2	+ 7·7	35	0	3	0·17	−0·57	*	*	*	*
	Arlington (N. Devon)	54	35	50·1	41·1	45·8	+ 5·6	30	3	4	1·30	+0·17	*	*	*	*
	Cullompton ⚓	55	38	50·7	44·3	47·6	+ 8·2	39	0	4	0·26	−0·52	0·3	− 9·5	1	−16
	Falmouth	55	43	52·1	47·6	49·9	+ 6·0	55	0	4	0·52	−0·66	2·9	− 9·1	5	−17
	Plymouth	54	44	51·4	47·7	49·6	+ 7·5	53	0	4	0·44	−0·44	4·9	− 6·0	9	−10
	Prawle Point	52	43	50·1	46·3	48·2	+ 6·1	43	0	4	0·51	−0·21	*	*	*	*
9. IRELAND, N.	Malin Head	51	43	50·0	44·3	47·3	+ 6·1	37	0	5	0·74	?	*	*	*	*
	Londonderry	53	41	50·9	43·2	47·2	+ 7·3	36	0	4	0·65	−0·25	*	*	*	*
	Edenfel (Omagh)	51	41	49·0	42·9	46·1	+ 8·0	29	0	3	0·95	+0·15	*	*	*	*
	Belmullet	52	42	50·1	45·6	47·9	+ 5·4	41	0	5	1·05	−0·17	*	*	*	*
	Markree Castle	53	41	50·6	45·0	47·9	+ 8·7	41	0	5	0·73	−0·14	1·9	− 6·3	4	−14
	Brookeborough												*	*	*	*
	Armagh	52	40	50·1	44·7	47·5	+ 9·1	39	0	3	0·81	+0·17	2·5	− 7·1	5	−14
	Donaghadee	51	39	49·1	42·6	46·0	+ 5·5	28	0	6	0·79	+0·16	*	*	*	*
	Edgeworthstown	53	?41	?50·9	?43·6	?47·4	?+ 8·3	?38	0	5	0·89	+0·20	*	*	*	*
10. IRELAND, S.	Dublin	57	43	53·5	46·8	50·3	+ 9·0	58	0	5	0·27	−0·24	4·9	− 8·2	9	−16
	Parsonstown	55	42	52·1	45·6	49·0	+ 9·5	49	0	5	0·49	−0·19	0·6	−10·4	1	−2
	Kilkenny	56	39	51·4	44·4	48·0	+ 6·8	42	0	4	0·32	−0·43	*	*	*	*
	Roche's Point	52	46	51·1	47·9	49·6	+ 6·0	53	0	6	0·68	−0·50	*	*	*	*
	Valencia	55	48	53·7	49·6	51·7	+ 6·7	68	0	5	1·50	+0·08	0·3	−11·9	1	−21
	Killarney	55	46	53·2	48·7	51·0	+ 6·7	63	0	4	0·74	?	*	*	*	*
	Foynes	55	44	52·4	46·4	49·5	+ 8·3	53	0	5	0·74	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	45	53·1	48·9	51·1	+ 5·0	64	0	4	0·61	−0·24	1·9	?	3	
	Jersey	55	36	49·9	45·3	47·7	+ 5·0	40	0	5	0·69	−0·10	4·7	−10·1	8	−19

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

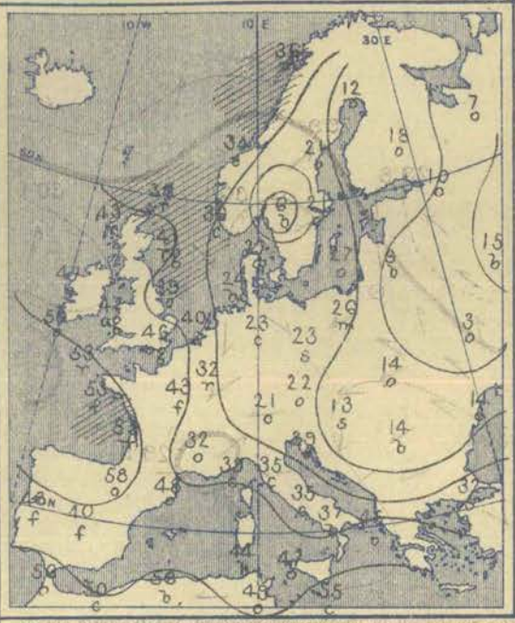
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College Westminster. For additional Reports of Sunshine see last page.

Sunday, 29th December.

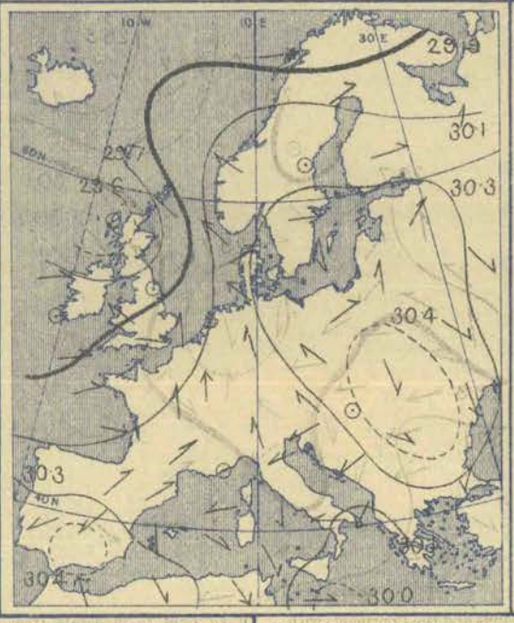
Temperature and Weather.

8 a.m.

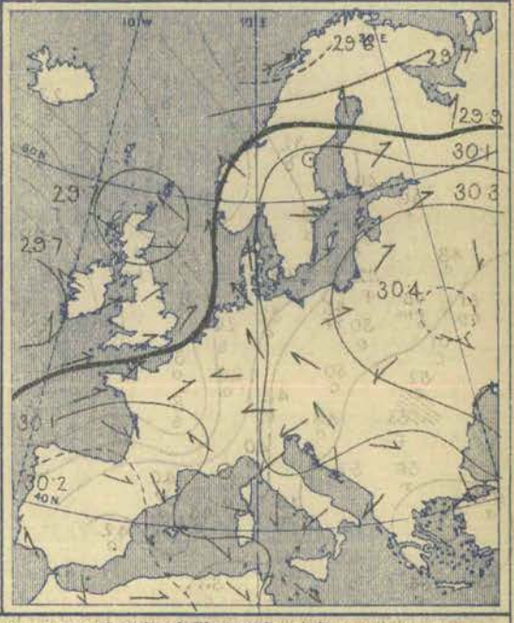


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the greater part of our Islands and the Continent, with fog or mist in many places; rain falling in Scotland, as well as at some of the French and Belgian stations. Snow reported at Breslau, Buda Pesth, Kharkov, and Constantinople, but weather fine in some parts of south-eastern Europe. Rain falling later over the western countries generally—heavily in many parts of our Islands and France. Sky clearing in Germany, and also in the extreme south of France.

Temperature risen considerably over our Islands, France, and the Netherlands, but fallen in most other countries. Morning readings highest, 58° at Biarritz, 56° at San Fernando and Algiers, and 55° at Rochefort and Malta; above 50° on some parts of our own south-west coasts. Lowest, 0° zero at Kharkov, 3° at Kiev, 6° at Carlstadt, 7° at Archangel and Nicolaieff, and 10° at St. Petersburg; considerably below the freezing point over the whole of Sweden, Russia, and Austria. Rising during day to 50° and upwards at most of the English and Irish stations, to 55° and upwards in the west and south of France, and to 60° and upwards over the Spanish Peninsula. Remaining below the freezing point in most parts of northern and central Europe.

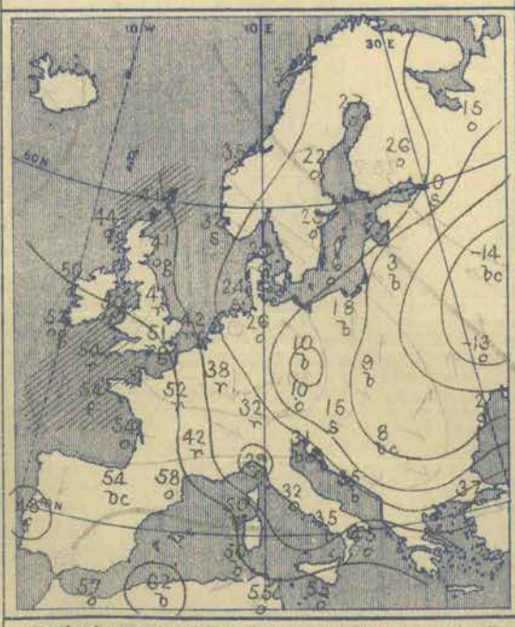
Wind light to moderate from the Westward or South-Westward over the greater part of our Islands and France, but strong from the Southward or South-Eastward in the extreme north of Scotland, as well as on the eastern shores of the North Sea; light from South-East in Germany. Light from West or South-West over northern Russia, and from North or North-West in the south of that country. Moderate to strong from the Northward in Italy; light from the North-Eastward over the Spanish Peninsula. Subsequently falling light and variable in the north of Scotland, but strong South-Westerly gale setting in at Bodö; veering to the North-Eastward in Italy.

Barometer highest, 30·4 ins. and upwards in an area lying over Austria and eastern Germany, and also in another system over the central and southern parts of Spain. Lowest, 29·6 ins. and less in a depression over the north and north-west of Scotland; 29·9 ins. and less over Lapland; 30·0 ins. and less over the central parts of the Mediterranean. Scotch depression subsequently moving north-eastwards, but new disturbance beginning to approach the Irish coasts in evening.

Monday, 30th December.

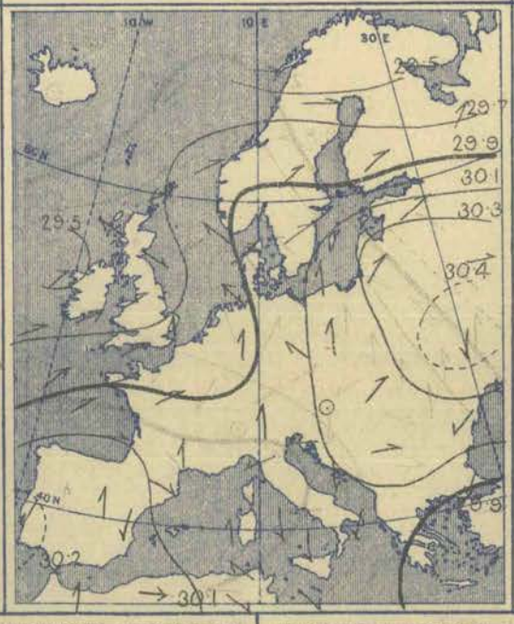
Temperature and Weather.

8 a.m.

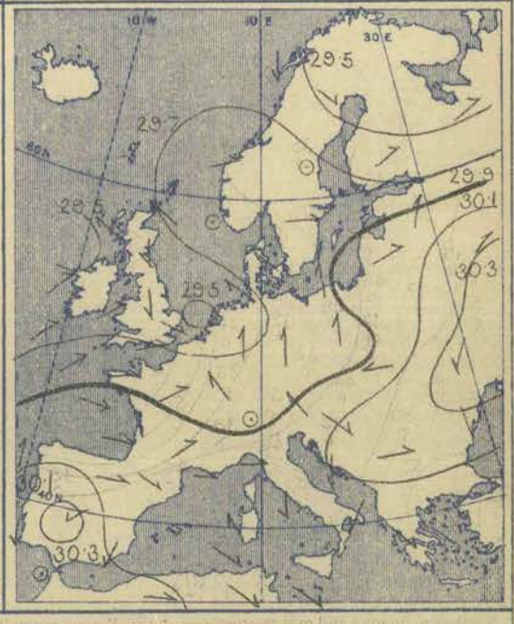


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in nearly all parts of our Islands and the Continent, rain falling over England, Ireland, France, and the south of Scotland, snow reported over the Gulf of Finland, and also at Skudesnaes and Buda Pesth. Fine and bright over north Germany, as well as in Poland and the south of Russia. Rain falling during day over the whole of western Europe—heavily in many parts of France. Lunar halos seen at Stornoway and Prawle Point. Sky clearing over central Italy and the south of France.

Temperature risen in all parts of western and northern Europe, as well as in Austria, fallen elsewhere. Morning readings highest, 62° at Algiers, 58° at Perpignan, and 57° at Oran; above 50° over France, and also over all the more south-western parts of the United Kingdom. Lowest, – 31° Fahr. at Kharkov, – 14° at Moscow, – 13° at Kiev, – 5° at Nicolaieff, and + 2° at Odessa; below 10° over Poland and eastern Germany, and below the freezing point over northern and central Europe generally. Rising during day to 50° and upwards at all the English and Irish stations, and reaching 57° at Loughborough; exceeding 55° in many parts of France, and exceeding 60° in Spain.

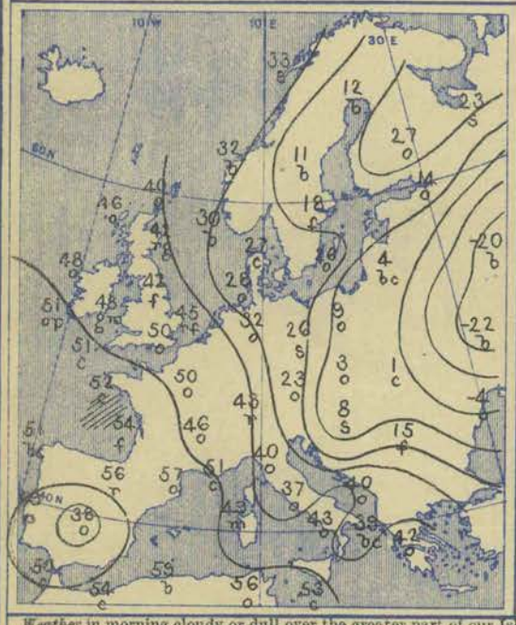
Wind moderate to fresh from the Westward or South-Westward over England, Ireland, and France; South-Easterly over Germany and the eastern shores of the North Sea; Easterly in the north of Scotland; Westerly or South-Westerly over the northern parts of Russia and Scandinavia. Light from the North-Eastward in the south of Russia; Northerly in Italy; variable over Spain and the south of France. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards over the southern parts of Russia; 30·2 ins. in an anticyclone lying over the greater part of Russia, and also in another system over Portugal. Lowest, 29·5 ins. and less in a depression lying over our extreme north-west coasts, and also in another disturbance over Lapland. Secondary disturbance developed later over the southern parts of the North Sea. No important change occurring elsewhere.

Wyman & Sons, Lt. Lith. 63, Carter Lane

Tuesday, 31st December.

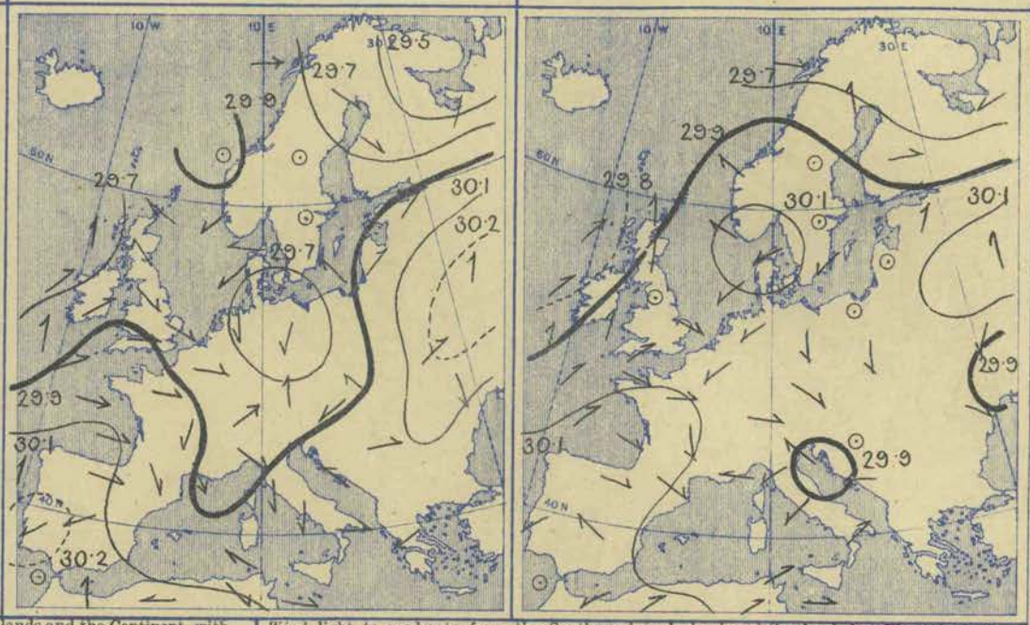
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog, mist, or rain in many places, and with snow at several of the German and Austrian stations, as well as over the Gulf of Finland, and at Copenhagen, Bodö, Archangel, and Nicolaieff. Fine over the greater part of Scandinavia, and also in Algeria. Weather improving later in the south-east of England, but slight rain falling during day in most of the western countries. Solar and lunar halos seen in the south of England.

Temperature risen over central and southern Europe as a whole—quickly in Germany, but fallen elsewhere. Morning readings highest, 59° at Algiers, 58° at Cagliari, and 57° at Perpignan and Sfax; above 50° over the Bay of Biscay and our own extreme south-west coasts, and just touching that point in London. Lowest, – 22° Fahr. at Kiev, – 20° at Moscow, – 10° at Nicolaieff, and – 4° at Odessa; considerably below the freezing point over the whole of Sweden, Russia, and Austria, and slightly below it in Denmark and Germany. Rising during day to 50° and upwards at most of the English and Irish stations, and reaching 55° at Jersey, exceeding 60° over Spain and the southern parts of France and Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

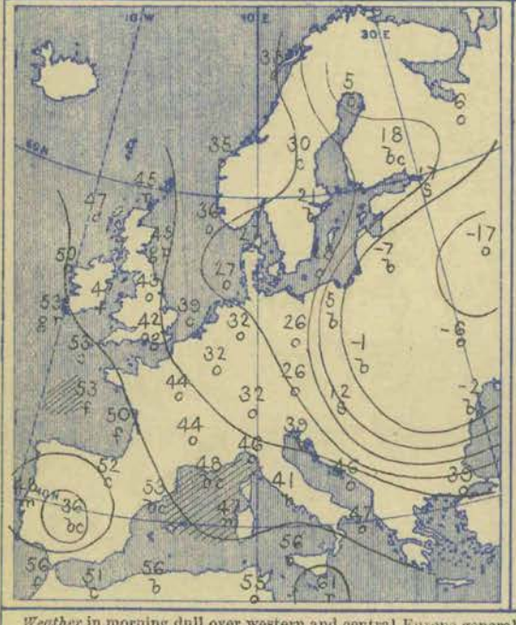


Wind light to moderate from the Southward in Ireland and Scotland, but Westerly over England, the Netherlands, and the north and west of France. Well-marked cyclonic circulation of light or moderate breezes reported over Germany, Denmark, and the south of Scandinavia. Calm or variable in the north of Scandinavia; Westerly (North-West to South-West) over northern Russia; Easterly or North-Easterly in the south of Russia, with a gale at Kharkov; Northerly in Italy and the south of France, rather variable in Spain, but chiefly North-Easterly. No important change occurring during day, but South-Easterly breezes setting in on the Norwegian coasts.

Barometer highest, 30·2 ins. and upwards in two anticyclones—one lying over the Spanish Peninsula, and the other over central Russia. Lowest, 29·4 ins. and less in a depression over the White Sea; 29·6 ins. and less in another disturbance over Germany and Denmark, with its centre near Berlin; 29·7 ins. and less in a shallow area lying to the north-west of our Islands. No important change occurring later over western Europe, but depression over Germany moving south-eastwards and partially filling up.

Wednesday, 1st January, 1896.

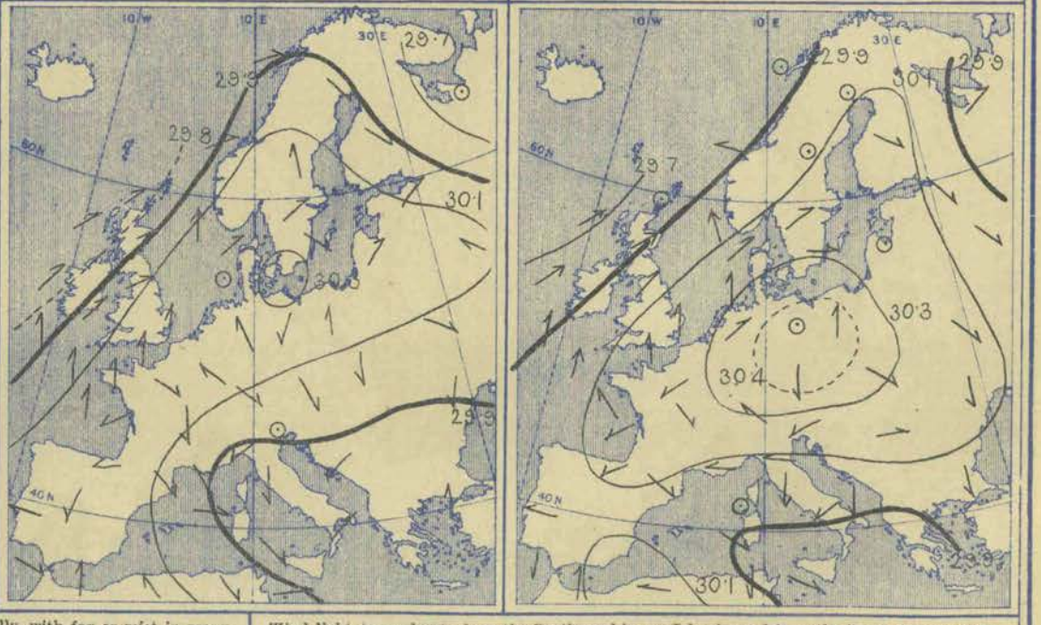
Temperature and Weather. 8 a.m.



Weather in morning dull over western and central Europe generally, with fog or mist in many places, and with rain in several parts of Great Britain. Fair or fine in Sweden, and also over Spain, northern Italy, and the extreme south of France, snow falling at St. Petersburg, Cracow, and Kharkov. Rain falling later in most parts of our Islands, and also in the west of Norway; and snow at Karlstad. Sky clearing at many of the Russian and Austrian stations.

Temperature fallen in Spain, France, the Netherlands, and the east of England, as well as at some of the Baltic stations; risen in most other localities. Morning readings highest, 61° at Malta, and 56° at San Fernando, Palermo, and Algiers; above 50° on our extreme south-west coasts, and above 50° in the west and north of our Islands generally. Lowest, – 17° Fahr. at Moscow, – 7° at Riga, – 6° at Kiev, and – 2° at Odessa; below the freezing point over northern and central Europe generally. Rising during day to 50° and upwards in most parts of the United Kingdom, and to 55° at Scilly; exceeding 60° in Spain, southern Italy, and the extreme south of France, and reaching 66° at Bilbao.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light to moderate from the Southward in our Islands, and from the South-Westward in the west of Norway. North-Westerly in Finland, and also in the south of Sweden; Northerly in Germany; variable in Russia and Italy; North-Westerly in Austria. Easterly or North-Easterly over the Spanish Peninsula and the south-west of France. Subsequently freshening from the Southward or South-Westward on some parts of our north and north-west coasts; backing to the South-Eastward in the west of Norway, and increasing to a slight gale at Skudesnaes.

Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone lying over Denmark, Germany, the Netherlands, the south of Scandinavia, and the greater part of France. Lowest, 29·7 ins. and less in a depression over the White Sea; 29·8 ins. and less in another disturbance lying to the north-westward of our Islands; 29·9 ins. and less over Italy, south-eastern Europe, and the eastern parts of the Mediterranean. Anticyclone subsequently increasing in size and height; depression over White Sea moving away to the eastward.

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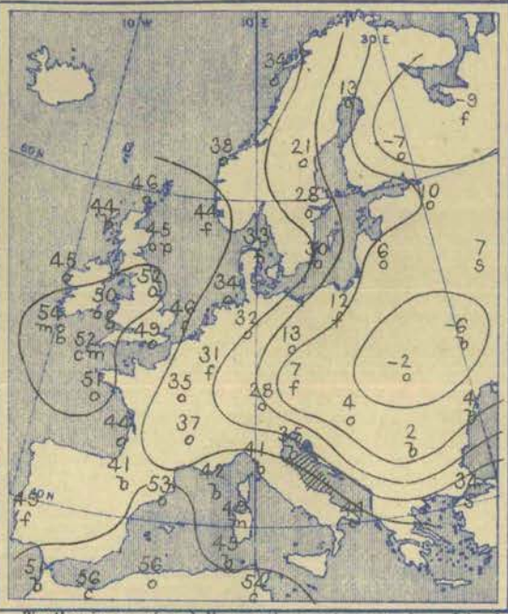
Thursday, 2nd January.

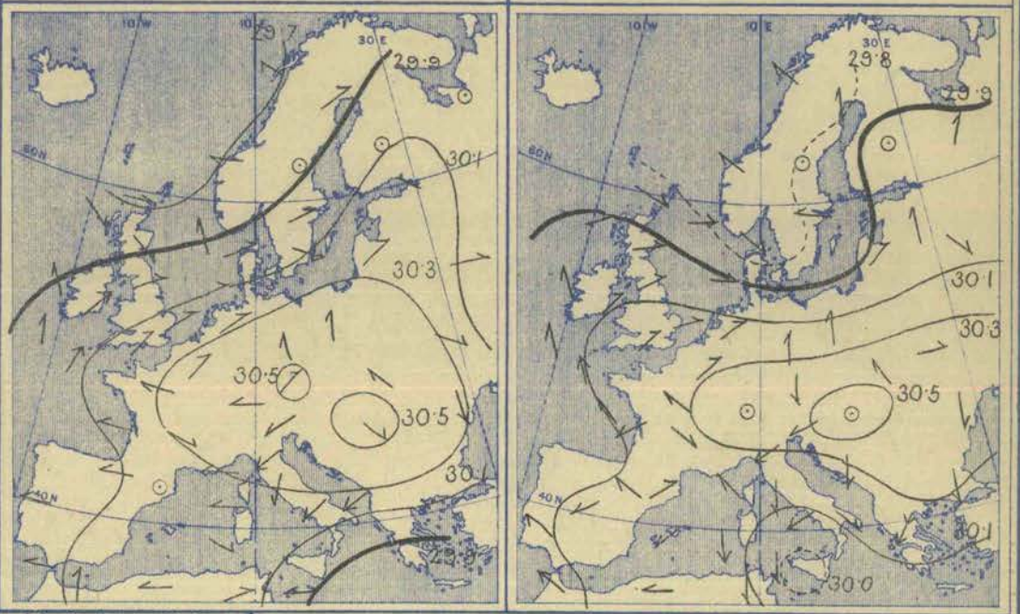
Temperature and Weather. — 8 a.m.



Weather in morning dull over the greater part of our Islands and the Continent, with fog in many places, rain over the southern parts of Ireland and Scotland, and snow at some of the Swedish and Russian stations, as well as at Constantinople. Fine in the north of Scotland, and also over northern Italy and the extreme southern parts of France, Austria, and Russia. Slight rain falling later in the west and north of our Islands generally, and larger quantities in some parts of Sweden, Denmark, and Germany.

Temperature risen over Ireland, England, Denmark, and the south of Scandinavia, but fallen in most other localities. Morning readings highest, (1) 56° at Oran and Algiers; and 55° at Malta; (2) 54° at Valencia (Ireland), and 53° at York, Liverpool, and Parsonstown; touching 50° in many parts of our Islands. Lowest, – 9° Fahr. at Archangel, – 7° at Kuopio, – 6° at Kiev, and – 2° at Lemberg; very little above zero in Austria, and considerably below the freezing point in Germany. Rising during day to 50° and upwards in nearly all parts of Ireland, England, and the south of Scotland; exceeding 55° in the southern parts of France and Italy, and exceeding 60° in many parts of Spain.

Barometer and Wind.

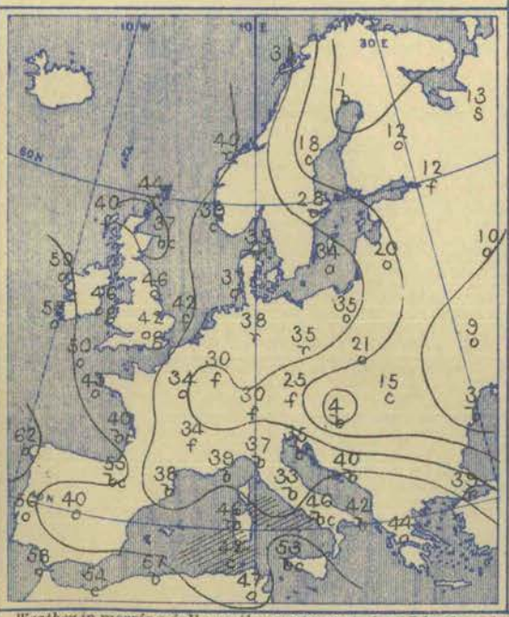


Wind light to moderate from the Southward in Ireland, and from the South-Westward over England, the Netherlands, Denmark, the Baltic, and the south of Scandinavia. Light from the North-Westward in the north of Scotland, but Easterly or South-Easterly in the west of Norway; Northerly or North-Westerly over Austria and the south of Russia; North-Easterly over Italy, Greece, and Turkey, with a gale at Athens; Easterly over the Spanish Peninsula and the greater part of France. No important change occurring during day.

Barometer highest, 30·4 ins. to 30·5 ins. over Austria and south Germany; 30·2 ins. and upwards in an anticyclone covering all the more central parts of Europe. Lowest, 29·7 ins. and less in a large area lying to the westward of Norway; 29·8 ins. and less in a depression lying to the southward of Greece. Low pressure system in north subsequently spreading eastwards over Scandinavia. No important change occurring elsewhere.

Friday, 3rd January.

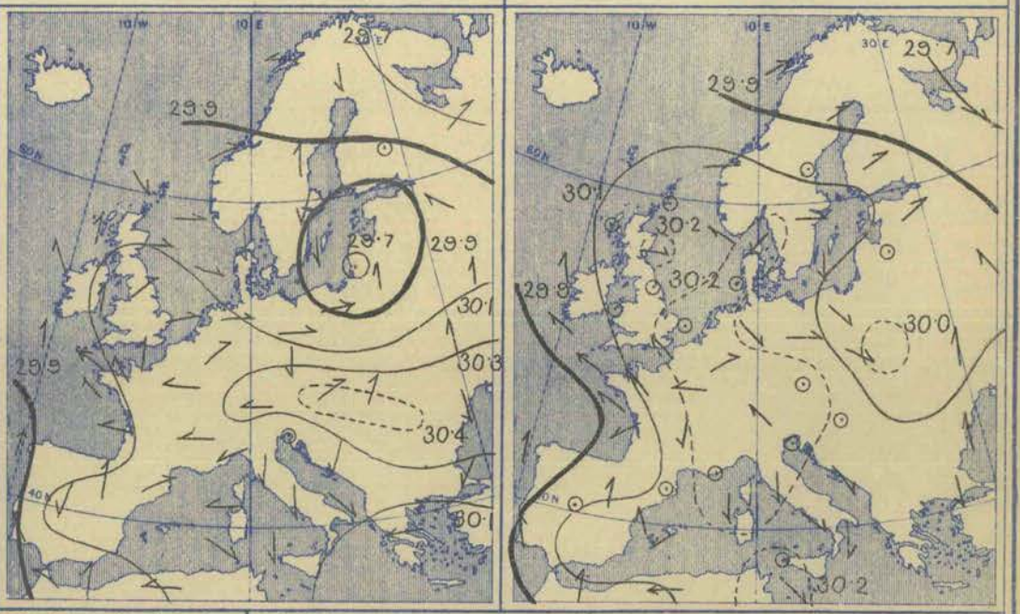
Temperature and Weather. — 8 a.m.



Weather in morning dull over the greater part of our Islands and the Continent, with mist or fog in many places, and with rain over north Germany, as well as at Athens and Constantinople. Rain falling also at Christiansund, and snow at Archangel. Fine over Austria, Italy, and the south of France. Slight rain falling later at some of our northern stations, and larger quantities in Germany, and also in the west of Norway. Aurora seen at Wick.

Temperature fallen in our Islands, France, and Italy, as well as in Scandinavia, but risen elsewhere—quickly over the northern parts of Germany and Russia. Morning readings highest, 62° at Corunna, 59° at Oporto, 58° at San Fernando, and 57° at Algiers; reaching 50° or more on our own extreme west and south-west coasts. Lowest, 2° at Nicolaieff, 3° at Kharkov and Odessa, 4° at Buda Pesth, and 9° at Kiev; considerably below the freezing point over nearly the whole of Sweden, Russia, Austria, and south Germany, and slightly below it in the east of France. Daily maxima below 45° in the south and south-east of England, and also in the north of Scotland, but exceeding 50° on some parts of our western coasts, and exceeding 60° over the Spanish Peninsula and the extreme south-west of France.

Barometer and Wind.



Wind light to fresh from the Eastward in France, and from the South-Eastward in the south of England; Southerly in Ireland; South-Westerly in the east of England. Westerly or North-Westerly in the north of Scotland, and also on the eastern shores of the North Sea. Variable over the northern parts of Scandinavia and Russia; Southerly or South-Westerly over Poland and central Russia. Variable in Austria and the southern parts of Germany and France; Northerly in Italy; Easterly or North-Easterly in Greece, with a moderate gale at Athens. Fresh or strong from the South-Eastward in the western parts of the Spanish Peninsula. No important change occurring later.

Barometer highest, 30·4 ins. and upwards in Austria; 30·1 ins. and upwards in an anticyclone covering nearly the whole of central, southern, and eastern Europe, and extending westwards over Great Britain. Lowest, 29·7 ins. and less in a depression over the White Sea, and also in another disturbance over the Baltic provinces; 29·9 ins. and less in an area lying off the Portuguese coasts. No important change occurring over western Europe during day.

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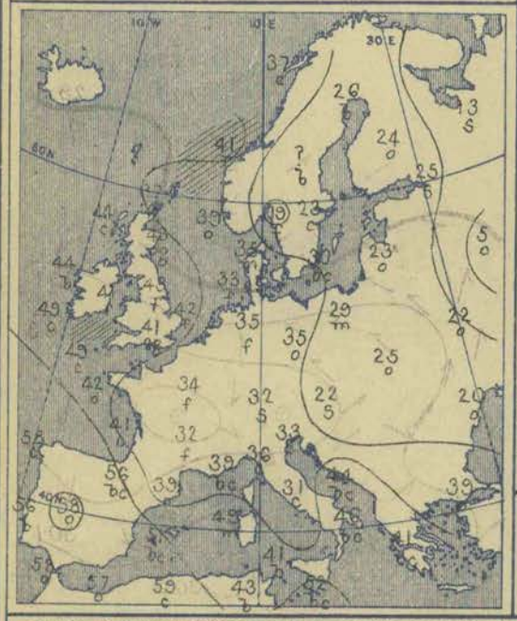
Saturday, 4th January.

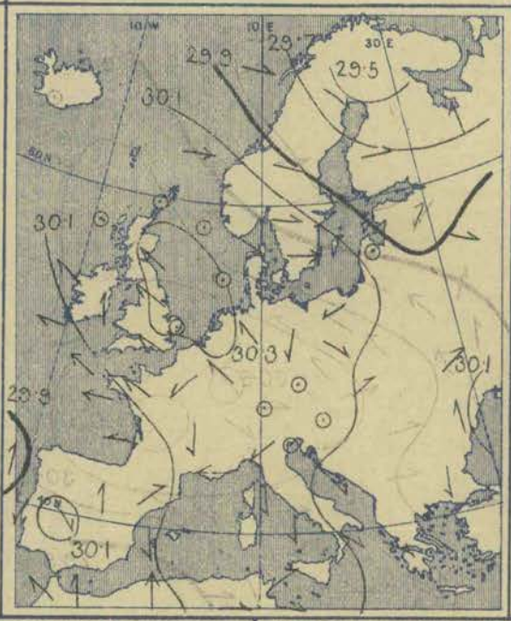
Temperature and Weather. 8 a.m.



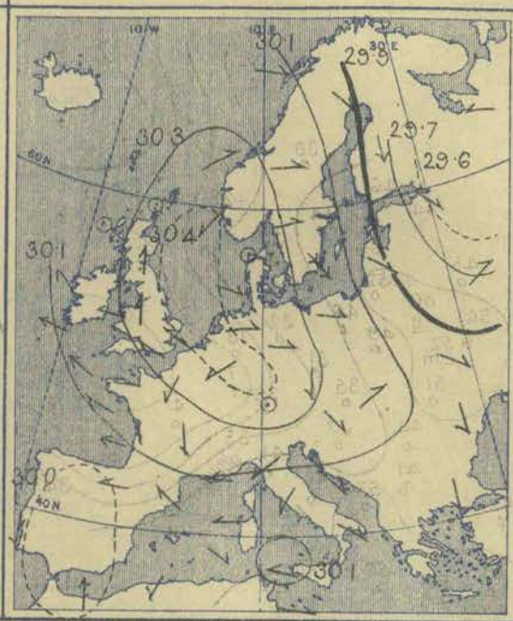
Weather in morning cloudy or dull over our Islands and the Continent generally, with mist or fog in many places, rain at Christiansund, and snow at Archangel and St. Petersburg, as well as at Munich and Vienna. Fine in Sweden, as well as in Greece, Italy, and the extreme south of France. Sky clearing later at many of our north-western stations. Rain falling in the west of Norway, and also in some parts of Germany; snow reported at Moscow.

Temperature risen in the north of Scotland, and also over south-eastern Europe generally, but fallen elsewhere. Morning readings highest, 59° at Algiers, 58° at Corunna and San Fernando, and 57° at Oran; above 50° over the western parts of the Mediterranean generally, and very little above it in the extreme south-west of our Islands. Lowest, 5° at Moscow, 12° at Archangel and Kharkov, 17° at Nicolaieff, and 18° at Memel; considerably below the freezing point over Russia, Austria, and the south of Sweden, and slightly below it over south Germany and the east of France. Daily maxima below 45° in many parts of Great Britain; sharp frost at night over central Scotland. Thermometer exceeding 60° over the Spanish Peninsula, southern Italy, and the extreme south-west of France, and reaching 68° at Oporto.

Barometer and Wind. 8 a.m.



6 p.m.



Wind Easterly or South-Easterly over our Islands, the Netherlands, and the greater part of France, and fresh or strong in force on our extreme south-west coasts. Light to moderate from the Westward or North-Westward in Scandinavia and Finland, and from the Northward in Denmark and north Germany. Calm or variable in Austria and south Germany. South-Westerly over the southern parts of Russia. Northerly or North-Westerly in Italy and Spain. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards over the North Sea, Holland, and the east of England; 30·1 ins. and upwards in an anticyclone lying over the greater part of western, central, and southern Europe. Lowest, 29·6 ins. and less in a depression over Lapland. Anticyclone subsequently increasing both in size and height, and barometer rising over western Europe generally. Depression over Lapland moving south-eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of last week a large anticyclone lay over the central and southern parts of Russia, and a smaller high pressure system over the Spanish Peninsula; the barometer being high over southern Europe generally. Over the north-western and northern countries the weather was affected partly by some large depressions which passed across the north of Scandinavia, and partly by some shallow secondary systems which advanced over our Islands from the westward, and which occasioned general falls of rain; the wind being South-Westerly and Westerly in the more southern districts, but rather variable in the north.

On the 31st December, however, the two high pressure systems united and formed one large anticyclone, which embraced the greater part of the Continent, and which extended over all the more eastern and southern parts of our Islands. On the 2nd January these conditions were temporarily interrupted owing to the advance of another low pressure system across Scandinavia, but towards the close of the week the anticyclone re-asserted its influence, and appeared to be steadily increasing both in size and height. The winds were Easterly or South-Easterly in most of the western countries, but South-Westerly or Westerly in the north, and North-Westerly or Northerly over eastern Europe, the weather being mostly dull and misty, or foggy, but with fairly high temperatures at all but the Swedish and Russian stations.

NOTE.

The means employed for comparision with the current values on the first and second pages of the WEEKLY WEATHER REPORT have been materially improved by the addition of observations made during the 5 years ending with 1895. The periods over which the means now extend are:—For Mean Temperature, the 25 years, 1871-95; for Accumulated Temperature, the 15 years, 1881-95; for Rainfall the 30 years, 1866-95; for Number of Rainy days, the 15 years, 1881-95; and for Bright Sunshine the 15 years, 1881-95.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	1·9	- 3·9	4	- 10	EASTBOURNE	2·5	- 9·5	5	- 18
OSWALDKIRK (Yorkshire)	1·2	- 7·1	2	- 14	MANCHESTER (Oldham Road)	0·3*	?	0*	?
WORKSOP	0·1	- 7·1	1	- 15	TENBY	0·9*	- 12·2	2	- 20
THURCASTON (Leicestershire)	2·8	- 6·2	5	- 12	NEWQUAY	8·2	- 2·8	15	- 6
MARGATE	0·2	- 9·6	0	- 17	TORQUAY	2·3*	- 11·7	4*	- 19
WESTBOURNE (Sussex)	6·3*	- 6·6	11*	- 10	ARLEY COTTAGE (County Cavan)	3·4	- 7·3	7	- 13
BRIGHTON	5·4	- 6·6	10	- 10	GUERNSEY	5·3*	- 4·9	9*	- 9

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII, No. 2.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 11TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 8.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	22	43·4	33·8	38·8	1 above	4	− 2	31	−12	19	+ 8	40	− 45
	1. SCOTLAND, EAST	53	22	42·6	31·7	37·3	1 above	2	− 5	38	− 7	10	− 3	59	− 29
	2. ENGLAND, N.E.	48	29	41·6	33·6	37·7	0 (average)	0	− 6	30	−12	20	+ 8	37	− 14
	3. ENGLAND, EAST	45	29	40·7	34·0	37·5	1 above	0	− 6	32	−16	25	+ 12	38	− 55
	4. MIDLAND COUNTIES	45	27	39·8	32·8	36·5	1 below	0	− 8	39	− 8	28	+ 12	42	− 50
	5. ENGLAND, SOUTH	45	29	40·6	33·8	37·4	1 below	0	−10	32	− 7	25	+ 4	32	− 44
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	48	22	43·0	34·3	38·8	0 (average)	3	− 6	29	− 3	23	+ 5	32	− 31
	7. ENGLAND, N.W.	47	26	41·4	34·7	38·2	1 below	0	− 7	27	− 7	31	+ 16	27	− 40
	8. ENGLAND, S.W.	50	25	41·5	33·8	37·8	3 below	0	−13	29	+ 1	39	+ 12	29	− 26
	9. IRELAND, NORTH	49	20	44·5	36·9	40·8	1 above	7	− 5	20	− 9	43	+ 20	20	− 37
	10. IRELAND, SOUTH	52	23	45·0	36·5	40·9	1 below	8	−10	22	− 1	63	+ 28	22	− 24
	—CHANNEL ISLANDS	52	33	44·8	37·9	41·5	3 below	8	−13	17	+ 4	60	+ 16	17	− 7

Rainfall.

	DISTRICTS. (See p. 8.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week.	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	3	9 below	10	0	0·9	− 1·8
	1. SCOTLAND EAST	2	less than ½	6 below	7	0	0·5	− 0·8
	2. ENGLAND, N.E.	3	1	3 below	8	0	0·8	− 0·1*
	3 ENGLAND, EAST	3	1	3 below	8	0	0·6	− 0·3
	4. MIDLAND COUNTIES		1	4 below	6	− 1	0·5	− 0·6
	5. ENGLAND, SOUTH	2	1	5 below	5	− 2	0·4	− 0·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	12 below	7	− 1	1·0	− 1·5
	7. ENGLAND, N.W.	0	—	7 below	4	− 3	0·6	− 0·8
	8. ENGLAND, S.W.	0	—	9 below	4	− 4	0·5	− 1·3
	9. IRELAND, NORTH	2	1	8 below	7	− 2	0·9	− 0·8
	10. IRELAND, SOUTH	0	—	9 below	5	− 3	0·7	− 1·1
	—CHANNEL ISLANDS	1	less than ½	7 below		− 3	0·7	− 0·9

Bright Sunshine.

	DISTRICTS. (See p. 8.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	0	10	0	8	− 1	9	− 1
	1. SCOTLAND EAST	7	− 1	15	0	9	− 6	9	− 6
	2. ENGLAND, N.E.	2	− 6	5	−10	3	− 13	3	− 13
	3 ENGLAND, EAST	2	− 8	4	−15	3	− 17	3	− 16
	4. MIDLAND COUNTIES	2	− 8	4	−14	4	− 15	4	− 14
	5. ENGLAND, SOUTH	3	− 8	5	−14		− 16	5	− 15
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	9	+ 2	17	+ 1	10	− 5	10	− 5
	7. ENGLAND, N.W.	3	− 5	5	− 8	5	− 9	7	− 9
	8. ENGLAND, S.W.	8	− 4	15	− 5	11	− 12	10	− 11
	9. IRELAND, NORTH	4	− 6	7	−11	7	− 12	7	− 11
	10. IRELAND, SOUTH	8	− 4	15	− 7	10	− 14	9	− 14
	—CHANNEL ISLANDS	5	− 8	9	−14	9	− 15	9	− 13

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewha defective.

General Remarks.

Weather over the Kingdom as a whole was dry and settled, but much cloud was prevalent, and in the north and east some slight falls of rain or sleet were experienced at times.

Temperature did not differ much from the mean except in England S.W., and the Channel Islands, where there was a deficit of 3°. The highest of the maxima were recorded during the middle part of the week, when they varied from 53° in Scotland E., to 45° over the southern, central, and eastern parts of England. The lowest of the minima, occurred, as a rule, during the latter part of the period, and varied from 20° in Ireland N., to 29° in England N.E., E., and S., and to 33° in the Channel Islands.

Rainfall was much less than the mean. Over the greater part of the Kingdom the fall was extremely slight, while at many of our western stations there was a complete absence of rain.

Bright Sunshine was again very deficient generally, but just equalled the mean in Scotland N. and E., and slightly exceeded it in Scotland W. The percentage of the possible duration ranged from 10 to 17 in Scotland, from 7 to 15 in Ireland, and from 4 to 15 over England.

Barometer and Wind.—During the whole of this period the distribution of pressure was anticyclonic, the barometer readings being exceptionally high. At the commencement of the week the barometer in the south-east stood at 30·5 ins. and upwards; by Thursday the anticyclone had moved north-westward, and the readings over the northern and north-western parts of the Kingdom ranged from 31·00 ins. to 31·09 ins.; at the close of the week, when pressure was giving way generally, the centre of the anticyclone had moved to Ireland, and the readings there were 30·8 and upwards. The winds were light to moderate in force; they were anticyclonic, but varied considerably in direction as the system altered its position. Towards the end of the period the wind shifted to the North-Westward or Westward in the north, and the change was extending Southwards at the end of the week.

* The corresponding value in last week's Report should read "+ 0·2."

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II.—DATA from which the SUMMARY on page 7 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	46	30	44·6	37·6	41·2	+ 2·3	7	18	6	0·17	−0·73	*	*	*	*
	Stornoway	48	28	45·4	35·0	40·4	+ 1·8	10	28	4	0·21	−1·00	6·5	+ 0·7	14	+ 1
	Wick	47	27	44·1	33·0	38·8	+ 1·3	6	35	6	0·20	−0·38	*	*	*	*
	Glencarron Ⓢ	47	23	41·8	32·2	37·2	+ 0·4	0	34	5	0·61	−1·66	*	*	*	*
	Fort Augustus Ⓢ	47	22	42·2	31·5	37·1	− 0·8	1	39	4	0·11	−0·97	3·9	+ 1·1	8	+ 1
	Fort William Ⓢ	47	25	42·1	33·5	38·0	− 1·1	0	31	4	0·21	−1·04	4·3	− 0·5	9	− 2
1. SCOTLAND, E.	Nairn	51	25	44·0	30·7	37·6	+ 0·5	6	43	3	0·05	−0·44	*	*	*	*
	Aberdeen	47	29	41·9	33·9	38·1	+ 0·8	0	27	2	0·03	−0·49	5·5	− 5·5	11	−11
	Braemar Ⓢ	45	22	39·2	27·0	33·3	− 0·8	0	61	1	0·06	−0·69	9·3†	+ 5·5†	19†	+11†
	Ochtertyre Ⓢ	53	25	44·6	30·0	37·6	+ 1·4	7	46	1	0·02	−1·06	*	*	*	*
	Leith	48	30	43·1	36·0	39·7	+ 0·9	3	23	1	0·01	−0·35	*	*	*	*
	Marchmont Ⓢ	47	26	42·7	32·3	37·7	+ 1·7	2	36	3	0·07	−0·53	10·0	+ 0·5	20	+ 3
2. ENGLAND, N.E.	Alnwick Castle	46	26	41·3	33·6	37·6	+ 0·1	0	31	3	0·03	−0·47	*	*	*	*
	Durham	47	29	41·5	32·3	37·1	+ 0·9	0	34	4	0·07	−0·38	3·1	− 6·7	6	−12
	Shields	48	29	42·7	35·0	39·0	+ 0·9	2	26	1	0·02	−0·36	*	*	*	*
	Scarborough Ⓜ	45	30	42·1	34·2	38·3	+ 0·2	0	28	3	0·15	−0·32	*	*	*	*
	York	45	29	41·3	32·4	37·0	0·0	0	35	2	0·03	−0·39	1·8	− 4·4	3	− 8
	Spurn Head	44	31	40·6	33·9	37·4	− 0·5	0	32	4	0·22	−0·11	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	42	31	40·3	34·7	37·6	+ 1·4	0	31	3	0·12	−0·33	0·5	− 9·0	1	−17
	Yarmouth	42	32	40·9	34·4	37·8	+ 0·7	0	29	5	0·19	−0·26	*	*	*	*
	Geldeston	45	33	41·6	34·4	37·6	− 0·1	0	31	2	0·09	−0·28	4·3	− 6·7	8	−12
	Cambridge	45	31	41·6	33·6	37·8	+ 0·9	0	29	3	0·03	−0·30	1·9	− 8·2	3	−17
	Rothamsted	43	29	40·2	32·9	36·7	+ 0·3	0	37	3	0·06	−0·45	1·5	− 8·3	3	−15
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	29	40·6	32·9	36·9	+ 0·2	0	36	2	0·11	−0·29	*	*	*	*
	Loughborough	44	30	40·1	33·4	36·9	− 0·1	0	36	2	0·12	−0·28	*	*	*	*
	Stamford (Ketton Hall)	44	30	41·3	33·7	37·7	+ 1·3	0	30	2	0·05	−0·35	*	*	*	*
	Cheadle Ⓜ	43	27	39·2	31·9	35·7	− 0·7	0	44	1	0·01	−0·57	*	*	*	*
	Solihull	43	28	38·4	32·3	35·5	− 1·4	0	46	3	0·08	?	*	*	*	*
	Churchstoke Ⓜ	42	28	38·8	32·6	35·8	− 1·4	0	43	1	0·03	−0·58	2·6	− 7·2	5	−14
	Hereford Ⓜ	44	30	39·9	32·	36·3	− 1·7	0	40	3	0·02	−0·49	*	*	*	*
	Cirencester	45	28	39·9	32·3	36·3	− 0·7	0	40	2	0·03	−0·59	1·8	− 9·3	3	−17
	Oxford	45	31	40·4	34·0	37·3	− 0·7	0	23	2	0·05	−0·40	3·0	− 7·2	5	−14
5. ENGLAND, S.	London	45	32	41·3	34·0	37·8	− 0·6	0	29	1	0·08	−0·36	0·8†	− 4·6†	1†	− 8
	North Foreland	45	33	41·6	36·1	39·0	+ 0·3	0	21	2	0·03	?	*	*	*	*
	Strathfield Turgiss Ⓜ	45	30	40·8	32·4	36·8	− 0·4	0	35	1	0·05	−0·45	*	*	*	*
	Dungeness	45	32	40·6	34·7	37·8	− 1·3	0	29	4	0·14	−0·36	*	*	*	*
	Hastings (St. Leonards)	43	32	39·6	34·1	37·0	− 2·1	0	35	6	0·27	−0·33	0·6	−12·8	1	−23
	Southampton	45	30	40·8	32·8	37·0	− 2·2	0	35	0	—	−0·69	5·9	− 5·2	11	− 9
	Hurst Castle	45	31	41·3	34·9	38·2	− 1·7	0	27	0	—	−0·60	*	*	*	*
	Stowell Ⓜ	44	29	39·1	31·2	35·3	− 2·9	0	47	2	0·02	−0·68	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	?	29	?	36·2	?	?	?	?	5	0·23	−1·69	*	*	*	*
	Glasgow	48	29	41·9	34·9	38·5	+ 0·5	0	25	1	0·08	−0·75	5·2	+ 0·7	10	0
	Ardrossan	48	28	43·4	34·7	39·2	− 0·7	4	28	1	0·05	−0·77	*	*	*	*
	Glenlee Ⓢ	48	22	42·4	31·2	37·0	0·0	1	39	1	0·01	−1·59	*	*	*	*
	Douglas (Isle of Man)	47	30	44·4	36·5	40·6	+ 0·3	7	22	0	—	−0·94	12·4	+ 2·1	24	+ 3
7. ENGLAND, N.W.	Stonyhurst	44	28	40·6	32·9	36·9	− 0·1	0	36	0	—	−0·88	2·6	− 5·4	5	−10
	Blackpool Ⓜ	46	28	41·4	33·3	37·5	− 0·3	0	32	0	—	−0·60	0·0	− 8·4	0	−14
	Manchester (Prestwich)	45	26	40·1	32·4	36·4	− 0·8	0	39	1	0·02	−0·69	0·9	?	2	?
	Liverpool Obsy. (Bidston)	41	33	39·4	34·9	37·2	− 1·8	0	34	0	—	−0·44	*	*	*	*
	Llandudno Ⓜ	47	34	42·7	37·2	40·1	− 0·9	2	18	0	—	−0·60	10·3	+ 1·2	19	+ 1
	Holyhead	47	36	44·0	37·7	41·0	− 1·1	6	18	1	0·01	−0·71	*	*	*	*
8. ENGLAND, S.W.	Llandovery	47	29	41·9	31·6	37·0	− 3·0	0	35	0	—	−1·11	*	*	*	*
	Pembroke	47	33	42·4	35·9	39·3	− 3·5	1	23	1	0·03	−0·78	4·0	− 7·7	7	−13
	Bristol (Montpelier)	43	31	39·6	33·7	36·3	− 2·5	0	36	2	0·05	−0·65	*	*	*	*
	Arlington (N. Devon)	43	25	35·9	31·6	35·9	− 4·1	0	43	0	—	−1·02	*	*	*	*
	Cullompton Ⓜ	44	29	40·0	32·3	36·3	− 3·1	0	40	0	—	−0·74	5·4	− 4·0	10	− 7
	Falmouth	50	31	43·6	35·5	39·7	− 3·9	4	25	0	—	−1·20	7·1	− 5·1	12	− 9
	Plymouth	47	31	41·7	34·2	38·4	− 3·2	0	25	0	—	−0·81	17·2	+ 6·4	30	+11
	Prawle Point	46	31	42·6	35·1	39·0	− 2·8	2	26	0	—	−0·67	*	*	*	*
9. IRELAND, N.	Malin Head	49	33	45·9	39·6	42·9	+ 1·8	16	7	3	0·11	?	*	*	*	*
	Londonderry	48	29	44·5	37·5	41·1	+ 1·2	7	18	2	0·13	−0·75	*	*	*	*
	Edenfel (Omagh)	47	23	43·4	33·9	38·8	+ 1·0	4	30	2	0·05	−0·73	*	*	*	*
	Belmullet	49	30	46·7	38·6	42·8	+ 0·5	20	10	1	0·07	−1·13	*	*	*	*
	Markree Castle	48	20	43·3	33·5	38·6	− 0·4	4	32	2	0·05	−0·85	6·3	− 2·5	12	− 5
	Brookeborough												*	*	*	*
	Armagh	47	26	43·0	35·3	39.3	+ 1·1	3	25	2	0·04	−0·62	2·9	− 6·6	6	−12
	Donaghadee	49	33	44·9	39·6	42·4	+ 2·3	13	7	1	0·02	−0·57	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	48	32	44·7	38·7	41·8	+ 0·7	8	14	1	0·02	−0·46	2·9	−10·1	5	−19
	Parsonstown	48	23	43·0	33·3	38·3	− 1·1	3	32	1	0·02	−0·63	4·3	− 6·7	8	−13
	Kilkenny	48	29	43·3	35·9	39·8	− 0·9	4	24	0	—	−0·72	*	*	*	*
	Roche's Point	51	35	46·7	40·7	43·8	+ 0·7	18	4	0	—	−1·18	*	*	*	*
	Valencia	52	30	47·1	36·9	42·2	− 2·7	23	14	0	—	−1·46	17·9	+ 5·5	33	+11
	Killarney	52	25	45·9	35·5	40·9	− 2·8	11	27	0	—	?	*	*	*	*
	Foynes	50	29	44·4	34·4	39·6	− 1·1	7	30	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (Mary's)	52	35	46·4	39·7	43·2	− 2·6	18	6	0	—	−0·77	6·5	?	11	
	Jersey	46	33	43·1	36·1	39·7	− 2·4	3	22	2	0·04	−0·68	6·5	− 8·5	11	−15

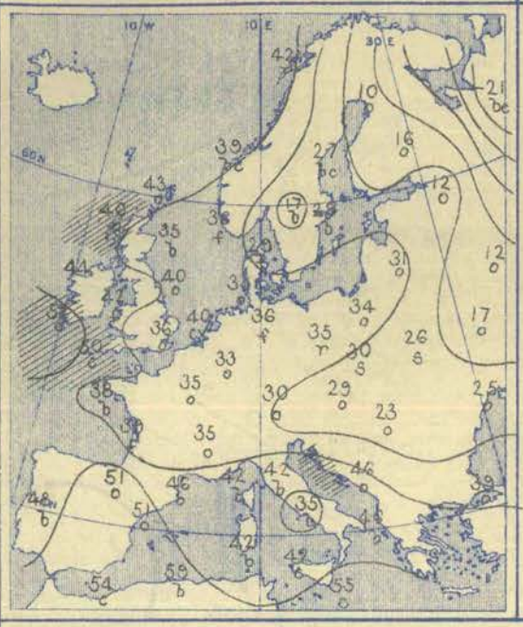
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

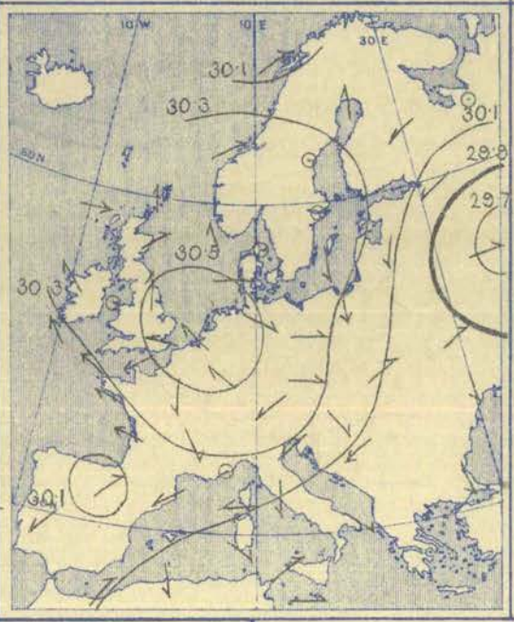
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 5th January.

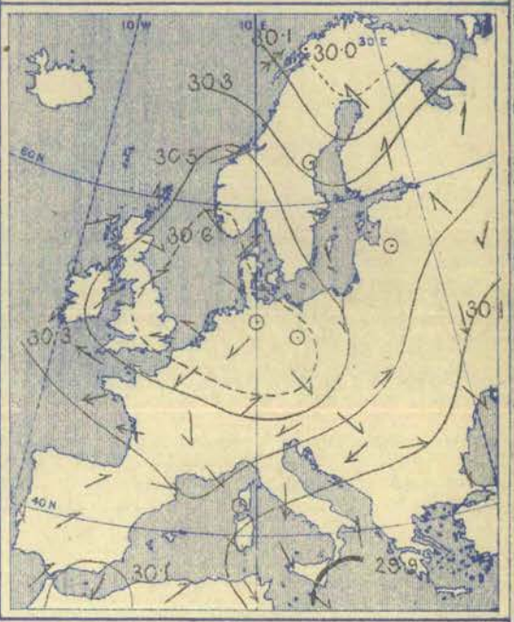
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the east of Scotland, the greater part of Scandinavia, and the Baltic, as well as in many parts of southern Europe; quiet over north-western Europe and the British Islands generally, but very dull, and in some places foggy; snow falling over several parts of central Europe, and rain in Finmark. Some rain or snow later over northern Europe and Russia, as well as over the Netherlands and east of England.

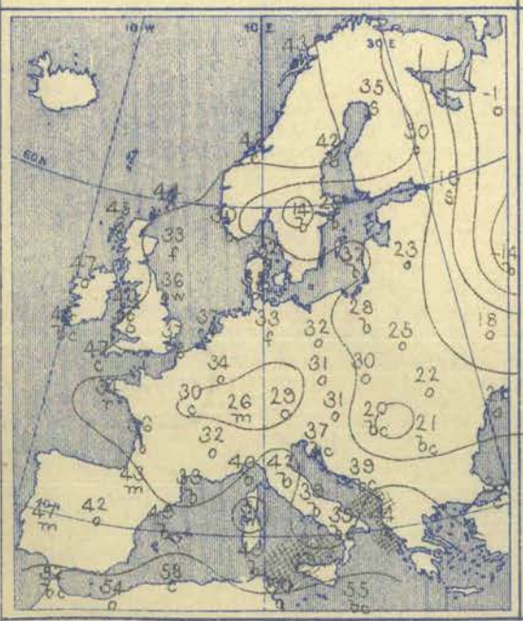
Temperature fallen over Scotland. Morning readings highest, 59° at Algiers, 55° at Malta and Oporto, 51° to 50° on our extreme south-west coasts, 46° at Stornoway. Lowest, - 21° Fahr. at Archangel, + 10° at Uleaborg, 12° at Moscow, 16° at Kuopio, and much below 32° all over Russia and Austria, 17° at Karlstad, 29° at the Scaw. No decided change later.

Wind fresh from East in the west of France; moderate over the English Channel; South-Easterly to Southerly in Ireland; nearly calm in Scotland; South-Westerly very strong at Bodö, but Northerly over the Baltic. Very variable over eastern and central Europe; North-Easterly to Easterly over the Mediterranean. No decided change later.

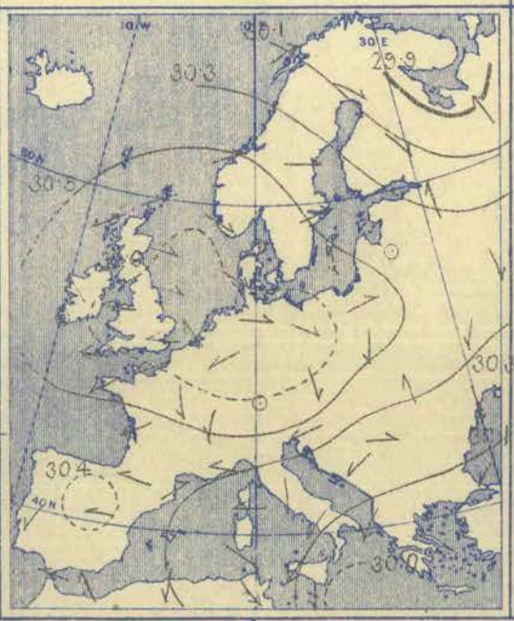
Barometer highest, 30·5 ins. and more over the Netherlands and eastern half of England, and exceeding 30·3 ins. over the whole of north-western Europe. Lowest, about 29·7 ins. over central Russia; below 30·0 ins. over Greece and Turkey, and below 30·1 ins. over the western parts of Lapland. Rising over our Islands and their neighbourhood all day, falling over Lapland, and also over the south-eastern parts of the Mediterranean.

Monday, 6th January.

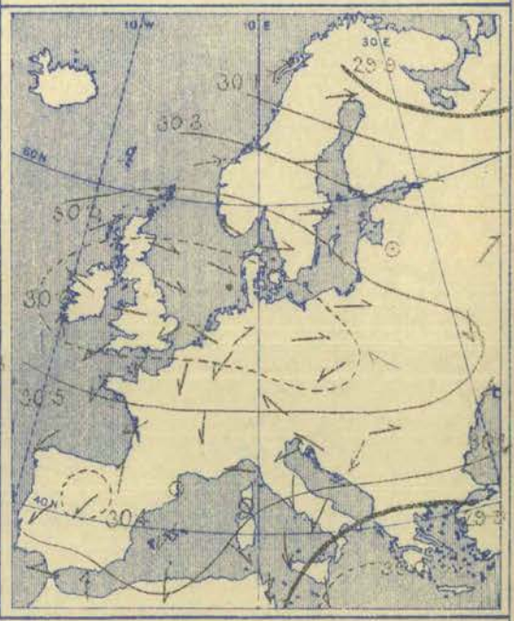
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western and central Europe generally, and also in Russia; fog or mist reported in many parts of our Islands, as well as in Denmark and north Germany; snow falling at Uleaborg and St. Petersburg. Fine over Italy, Austria, and the southern parts of France and Spain, as well as at most of the Scandinavian stations, but rainy at Bodö. A little rain falling later at some of our own northern stations, and a little snow, locally, in Russia; no important change occurring elsewhere.

Temperature risen slightly in the extreme northern and north-western parts of our Islands, rapidly over the north of Sweden and Russia. Morning readings highest, 58° at Algiers, 55° at Malta, 54° at Oran, and 53° at Nemours, and above 45° at some of the Irish stations. Lowest, - 14° Fahr. at Moscow, - 1° at Archangel, + 9° at Kharkov, and 10° at St. Petersburg; below the freezing point over northern, central, and eastern Europe generally. Daily maxima below 40° in many parts of England, but 45° and 48° registered on our extreme north and north-west coasts; exceeding 50° in the south of France, and touching 61° at Croisette and Sanguinaire. Frost occurring over our Islands at night.

Wind North-Easterly or Easterly over the extreme south of our Islands, the Netherlands, France, and the greater part of southern Europe; light or moderate in force generally, but blowing a slight gale at Brindisi. Light from the South-Eastward or Southward on our western coasts, from the South-Westward over Scotland and the north-east of England, and from the North-Westward in Denmark and Germany. South-Westerly or Westerly in Scandinavia and Finland, with a gale at Bodö; light from the Northward over the central and southern parts of Russia. No important change occurring during day.

Barometer highest, 30·6 ins. and upwards over England, the east of Ireland, the North Sea, Germany, the Netherlands, and the north-east of France; 30·1 ins. and upwards in an anticyclone embracing all but the extreme northern parts of Europe. Lowest, 29·9 ins. and less in a depression lying over the White Sea; 29·0 ins. and less in another disturbance to the eastward of Malta. No important change occurring over western Europe during day.

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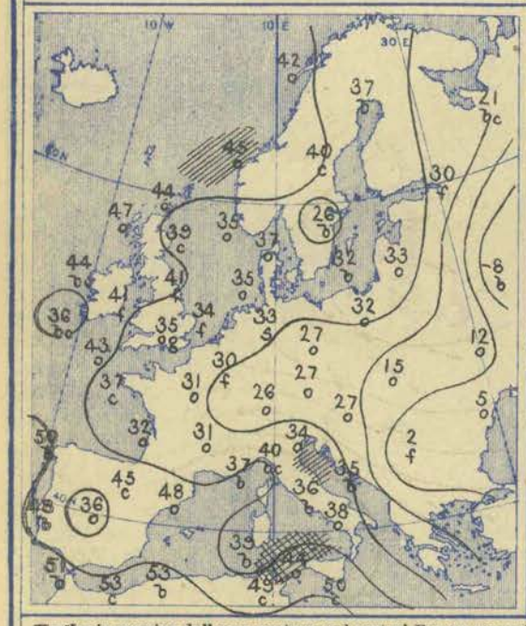
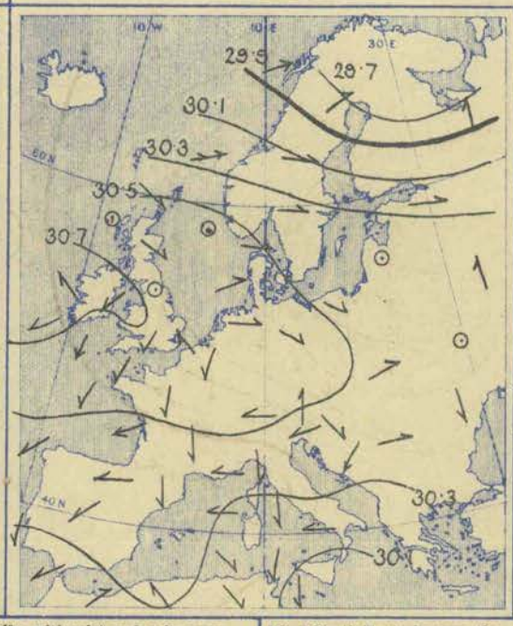
Tuesday, 7th January.

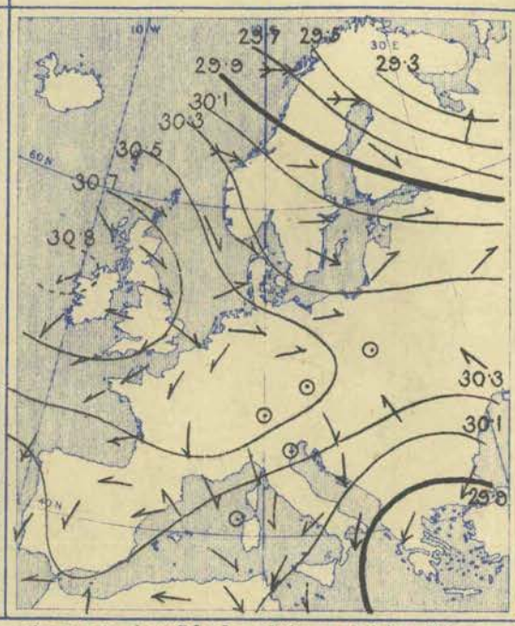
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning dull over western and central Europe generally, with mist or fog in many places, and with snow at Cuxhaven, fine in the west of Ireland, and also over Sweden, northern and central Russia and the greater part of southern Europe, but dull in the south of Italy. Slight rain falling later at several of our own northern stations, and a few spots of snow in London. Rain falling also in Denmark, slight snow in North Germany, the west of Norway, and Austria-Hungary.

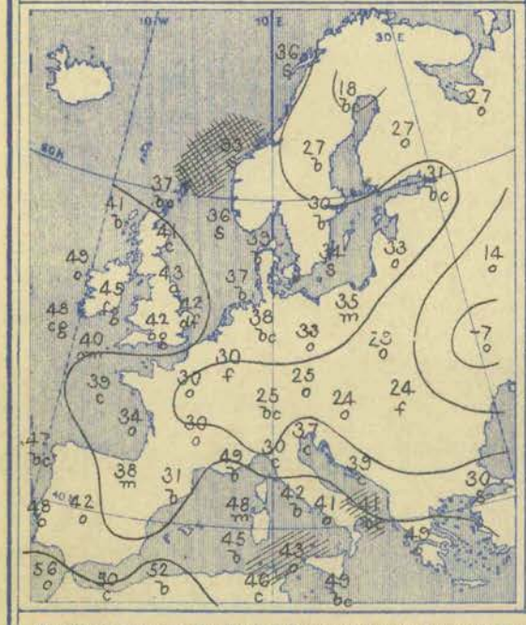
Temperature risen in Scotland and also over Norway, Denmark, and the Baltic, but fallen in most other localities. Morning readings highest, (1) 53° at Oran and Algiers, 51° at Palma and San Fernando, and 50° at Corunna; (2) 47° at Stornoway and Nairn, and 45° at Christiansund. Lowest, −18° F. at Kharkov, −8° at Moscow, +1° at Nicolaieff, 2° at Hermanstadt, and 5° at Odessa; below the freezing point over central Europe generally, and ranging between 32° and 35° at many of the English stations. Rising during day to between 46° and 49° over Ireland and Scotland generally and to 51° at Nairn; maximum readings over England very little above 40°, and not touching 32° over Austria.

Wind North-Easterly over the southern parts of our Islands, and also over Belgium, France, and the greater part of southern Europe; fresh or strong in force over the Bay of Biscay. Light from the Westward in the north of our Islands, and also in Sweden, Denmark, and North Germany; strong to a gale from the same quarter in the west of Norway; North-Westerly over eastern Germany, Southerly over the northern and central parts of Russia. Subsequently veering to the North-Westward over the northern parts of our Islands, no important change occurring elsewhere.

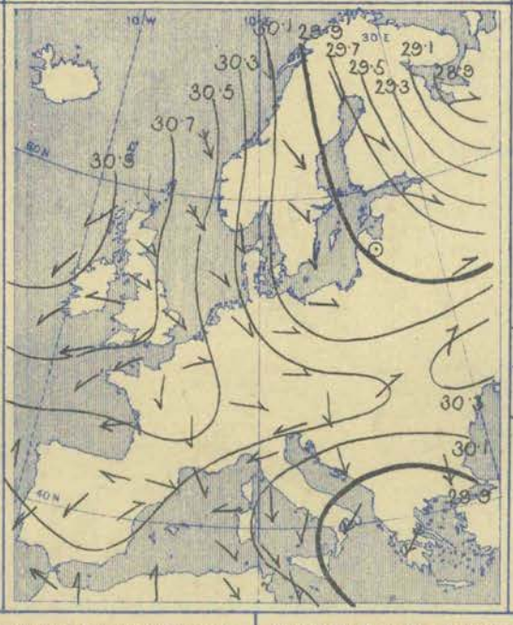
Barometer highest, 30·7 ins. and upwards over Ireland, and the northern and central parts of England; 30·3 ins. and upwards in an anticyclone covering all but the northern and extreme southern parts of Europe. Lowest, 29·7 ins. and less in a depression over Lapland, 30·0 ins. and less in a shallow disturbance to the eastward of Malta. Northern depression subsequently spreading southwards, and barometer falling decidedly in Sweden and Denmark.

Wednesday, 8th January.

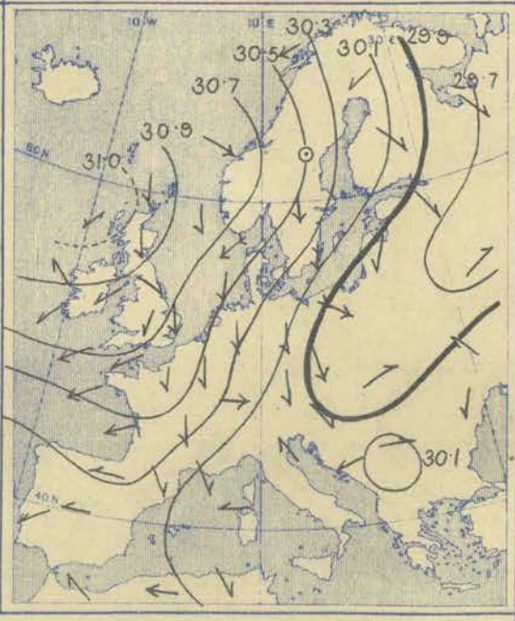
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy or dull over western and central Europe, with fog or mist in many places, drizzling rain at some of the English stations, snow in the west of Norway, as well as at Münster and Swinemunde. Fine in Italy and the south of France, and over the greater part of Sweden, Denmark, and Finland, but snow reported at Wisby. Sky clearing later in many parts of Great Britain, but slight rain or sleet falling at several of our eastern and southern stations, and larger quantities over Germany and Russia. Aurora seen at Stornoway.

Temperature changed very irregularly. Morning readings highest, (1) 56° at San Fernando, 52° at Algiers, 50° at Oran, and 49° at Athens and Malta; (2) 49° at Belmullet, and 48° at Valencia (Ireland); above 40° over the United Kingdom generally. Lowest, −24° Fahr. at Kharkov, −7° at Kiev, +14° at Moscow, 18° at Haparanda, and 21° at Karlstad; below the freezing point in Austria, Germany, and France. Daily maxima below 45° at many of our northern and eastern stations, but thermometer rising to between 48° and 50° on our extreme west and south-west coasts. Frost occurring in many parts of the United Kingdom at night.

Wind light from the Northward or North-Westward over all the more northern and eastern parts of our Islands, and also over northern Europe generally, but strong to a gale in force on the Norwegian coasts. North-Easterly in the south of our Islands, as well as over the greater part of France and southern Europe; strong in force in places, and blowing a gale at Athens. Light from the Westward or South-Westward over Poland and central Russia. Subsequently veering to the North-East in the north of our Islands. Gale on Norwegian coasts subsiding gradually.

Barometer highest, 30·90 ins. at Stornoway and Belmullet; 30·8 ins. and upwards over the whole of Ireland and Scotland; 30·7 ins. and upwards over all but the extreme south-eastern parts of England. Lowest, 28·9 ins. and less in a deep depression over northern Russia; 29·8 ins. and less in another disturbance lying over and to the southward of Greece. Rising later to 30·9 ins. and upwards over the whole of Scotland and the north of Ireland, and reaching 31·01 ins. at Stornoway.

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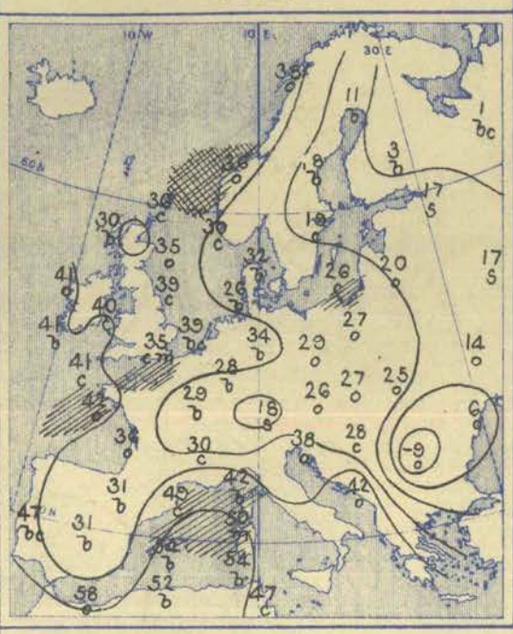
Thursday, 9th January.

Temperature and Weather.

8 a.m.

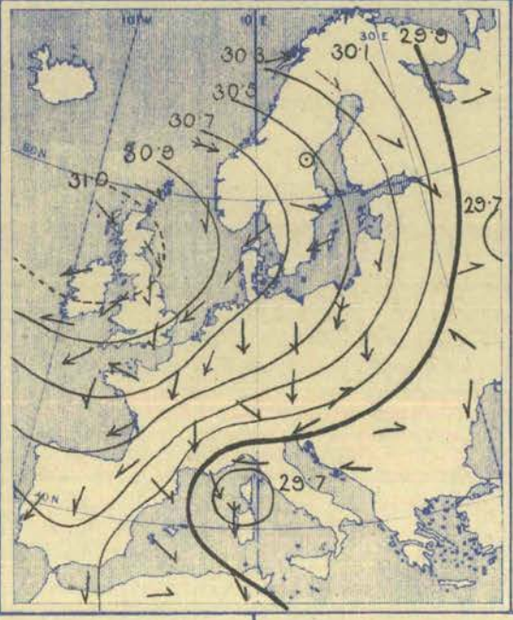


Weather in morning fine and bright over Scotland, Sweden, Finland, and the north of Russia, as well as over France, the Spanish Peninsula, and several parts of the Mediterranean. Cloudy or overcast over England, with snow squalls on our south-east coasts. Snow reported in several parts of Russia, and central Europe also. Some snow later over Germany and the south-east of England, rain in Norway and the north of Scotland.

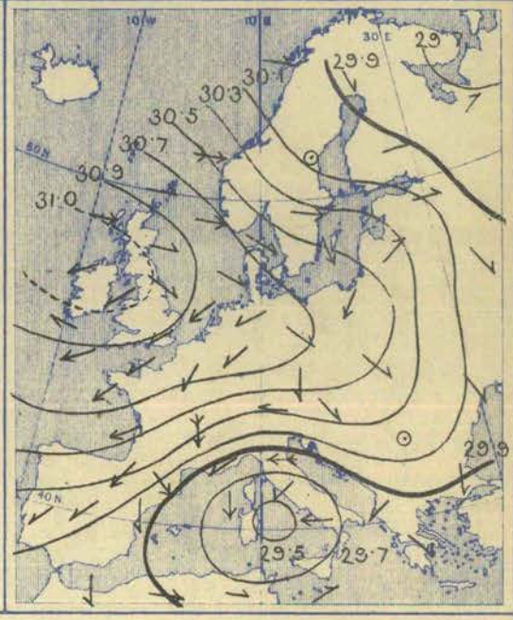
Temperature fallen over the British Islands and northern Europe—rapidly over Finland and at Archangel. Morning readings highest, 52° at Algiers, 47° at Lisbon, 42° at Brest, 41° at our extreme south-western and western stations, 40° at Spurn Head, and 36° at Christiansund. Lowest, (1) – 13° Fahr. at Kharkov, – 9° at Hermanstadt, + 5° at Odessa; (2) 1° at Archangel, 3° at Kuopio, 11° at Haparanda and Hangö, 17° at Moscow; (3) 28° at Wick, 30° at Nairn, 33° at Parsonstown, 35° at York and in London. Rising decidedly in Norway and the north of Scotland later.

Barometer and Wind.

8 a.m.



6 p.m.



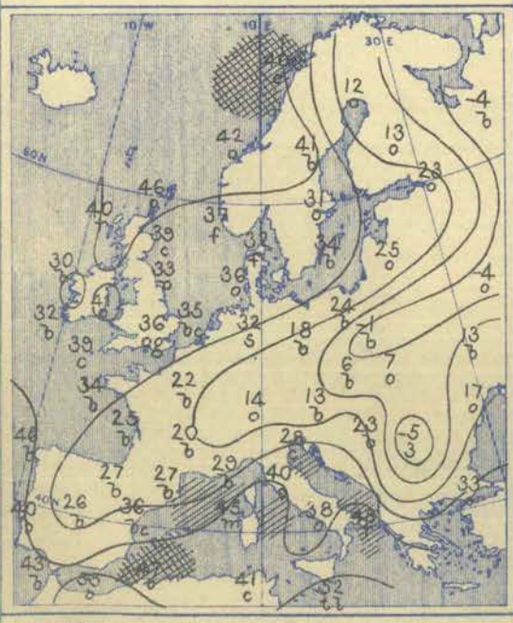
Wind North-Westerly to Westerly over Finland and Scandinavia, and blowing a gale on the Norwegian coast; Northerly a gale in north Germany, and a fresh breeze over south Germany; North-Easterly moderate to strong over France, the Bay of Biscay, and the English Channel; Northerly light over England; North-Easterly and Easterly over Ireland. Westerly breeze spreading to Scotland later, but wind falling calm over Ireland.

Barometer highest, 31·00 ins. to 31·09 ins. over the northern parts of the British Islands, and exceeding 30·7 ins. over the whole of the United Kingdom and the adjacent parts of north-western Europe. Lowest, below 29·7 ins. in a depression near Moscow, and in another over the north-eastern part of the Mediterranean. Beginning to fall over the British Islands later, most in the north, and falling decidedly over Scandinavia.

Friday, 10th January.

Temperature and Weather.

8 a.m.

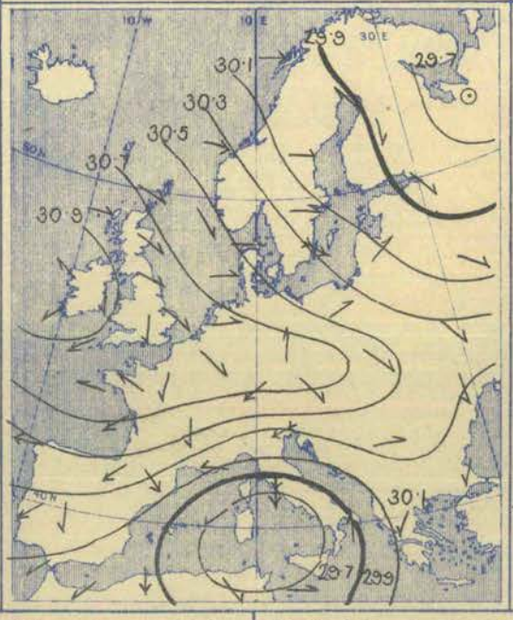


Weather in morning fine over Ireland, many parts of Scotland, and the greater part of Spain, France, Germany, the Baltic, and Sweden, very unsettled over the Mediterranean, Italy, and the Adriatic, with rain in places, and a thunderstorm at Malta; showery on our north and north-east coasts. Some rain in the latter regions later, and in Norway, rain and wet snow in the south-east of England, Belgium, and the north-east of France; very fine day in the south-west of Ireland. Very heavy rain in Algeria and at Brindisi.

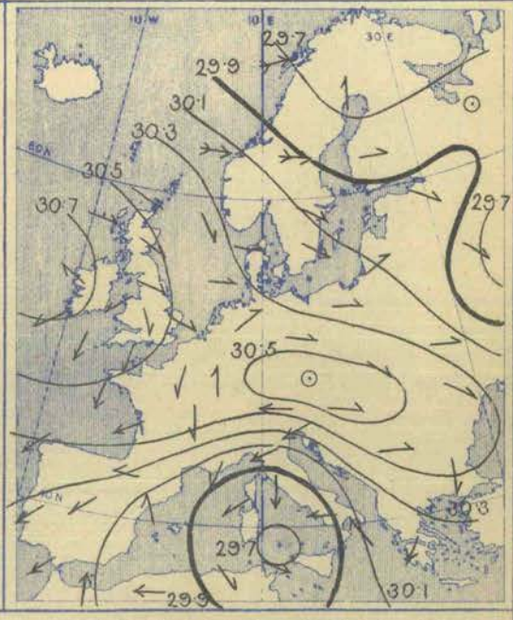
Temperature in morning highest, (1) 53° at Nemours, 52° at Malta, 48° at Brindisi, 47° at Algiers, 46° at Corunna; (2) 46° at Sumburgh Head, 43° at Wick, 42° at Christiansund, 41° at Hernösand, 40° at Bodö. Lowest, (1) – 4° at Archangel and Moscow, – 1° at Warsaw, + 4° at Kharkov; (2) – 5° at Hermanstadt, + 6° to 18° over south Germany, 22° at Paris, 29° at Nice, 33° at Florence; (3) 25° at Parsonstown, 31° at York, 34° at Oxford. Rising rather decidedly over our Islands later—to more than 40° in most places, to 50° at Brindisi, and 57° at Malta.

Barometer and Wind.

8 a.m.



6 p.m.



Wind (1) light and anticyclonic over our Islands; Westerly in the north; Easterly and North-Easterly in the south; calm over central Ireland; (2) Westerly to North-Westerly moderate to strong over northern Europe; (3) North-Easterly to Northerly strong to a gale over the northern parts of the Adriatic, Italy, and the Mediterranean; North-Westerly strong at Perpignan; Northerly strong on the Algerian coast; Westerly moderate at Malta; Southerly light at Brindisi. No great change over north-western Europe or our Islands later.

Barometer highest, 30·99 ins. to 30·90 ins. over Ireland, and exceeding 30·8 ins. over nearly the whole of the British Isles; exceeding 30·6 ins. in a "ridge" extending thence over the Netherlands and north Germany. Lowest, below 29·7 ins. (1) over the White Sea and north of Russia, and (2) in a large depression over the Mediterranean, and below 30·2 ins. over the Black Sea—gradients steep for North-Easterly winds over southern Europe, and for North-Westerly winds over Scandinavia, the Baltic, and western Russia. Falling slightly and unsteadily in the British Islands all day.

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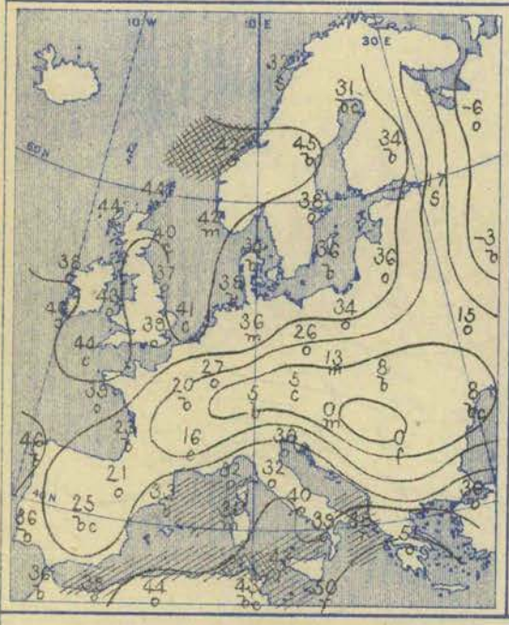
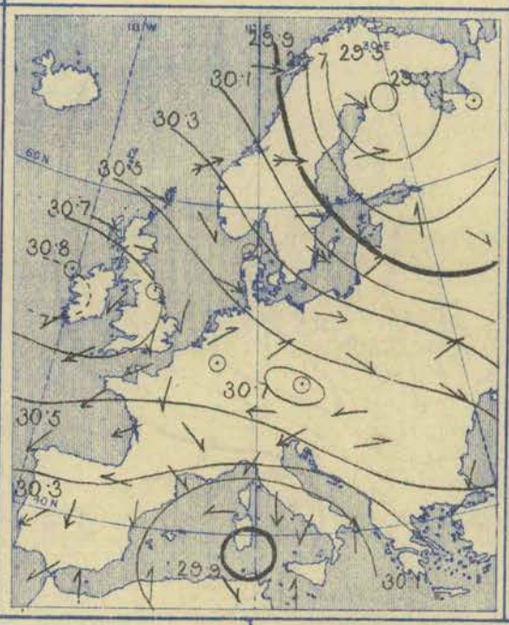
Saturday, 11th January.

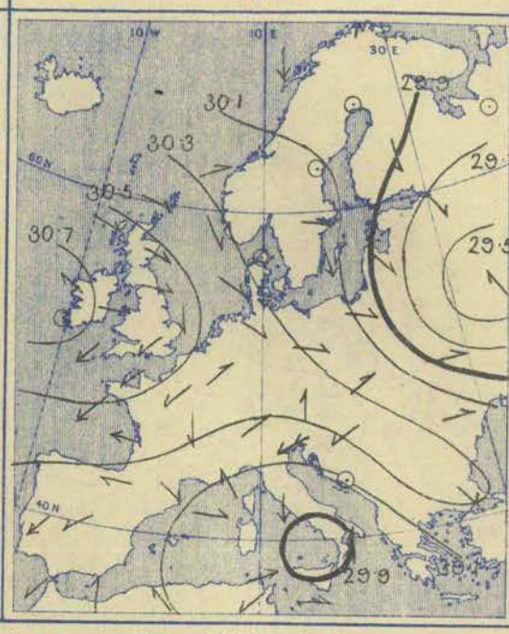
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, France, Denmark, and some parts of Germany Russia and Sweden; cloudy or overcast elsewhere; with rain at many of the Mediterranean stations, snow in several parts of northern Russia and Lapland, and drizzling showers over England. Slight rain later in many parts both of our Islands and the Continent; much cloud over the United Kingdom and neighbourhood.

Temperature rising fast over northern and central Europe, and slightly over the British Isles. Morning readings highest, 51° at Patras, 50° at Malta, 44° to 40° at many of our own western and northern stations, 42° at Christiansund and Skudesnaes. Lowest, (1) −6° Fahr. at Archangel, −3° at Moscow, +15° at Kharkov and Kiev; (2) 0° Fahr. at Hermanstadt and Buda Pesth, +5° at Vienna, Prague and Munich, 19° at Wiesbaden, 20° at Paris. Rising later to between 46° and 40° over the United Kingdom generally, and to above the freezing point at Paris, Cuxhaven and Berlin, and touching 46° at Nice.

Wind Westerly, moderate to a gale over northern Europe, light in Scotland; Northerly, light over England; North-Easterly, light over France and fresh over the Bay of Biscay. A well-defined cyclonic circulation over the Adriatic, Italy, and the eastern parts of the Mediterranean. Northerly gale at Rome and a fresh Southerly breeze at Palermo and Brindisi. No decided change later.

Barometer highest, 30·8 ins. and more over Ireland, and exceeding 30·6 ins., not only over the British Isles, but in a ridge extending thence across Belgium and central Europe to Hungary—with a secondary maximum of 30·7 ins. and more over Austria. Lowest, below 29·4 ins. in a depression over the north of Finland, and below 29·9 ins, in another over the Mediterranean, having its centre somewhat to the north-westward of Palermo; below 30·1 ins. over Morocco. Falling unsteadily in our Islands all day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The distribution of pressure observed during this week has been remarkable for the unusual intensity of the anticyclone which has prevailed over the British Islands and the neighbouring parts of the Atlantic. The central part of the system was, at the beginning of the week, lying over the Netherlands and east of England, when the maximum readings were all below 30·6 ins., but on Thursday, when the centre lay over Scotland and the north of Ireland, the maximum values exceeded 30·8 ins., and in the west of Scotland they appear to have touched 31·09 ins. at two stations, viz., Stornoway and Ardrossan. These appear to be the highest readings on record in the British Islands, and have not been even approached since January, 1891, when in our western districts the barometer rose to considerably above 30·9 ins.

In the meantime depressions of considerable depth have been advancing from the north-westward, over northern Europe to Russia, while others have appeared over the eastern parts of the Mediterranean, and have caused very rough weather over that region, Italy, the Adriatic, and south-eastern Europe.

Temperature has not been low for the time of year over the United Kingdom, but over Hungary and the southern and central parts of Russia the frost has been very intense, and has been very sharp over central Europe also.

NOTE.

The means employed for comparision with the current values on the first and second pages of the WEEKLY WEATHER REPORT have been materially improved by the addition of observations made during the 5 years ending with 1895. The periods over which the means now extend are:—For Mean Temperature, the 25 years, 1871-95; for Accumulated Temperature, the 15 years, 1881-95; for Rainfall the 50 years, 1866-95; for Number of Rainy days, the 15 years, 1881-95; and for Bright Sunshine the 15 years, 1881-95.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	3·8	− 2·4	8	− 6	EASTBOURNE	0·6	− 11·4	1	− 21
OSWALDKIRK (Yorkshire)	1·7	− 6·5	3	− 12	MANCHESTER (Oldham Road)	0·6*	?	1*	?
WORKSOP	1·1	− 6·5	2	− 13	TENBY	5·5*	− 7·3	10*	− 12
THURCASTON (Leicestershire)	2·4	− 6·5	5	− 11	NEWQUAY	14·1	+ 3·1	25	+ 5
MARGATE	0·8	− 8·7	1	− 15	TORQUAY	5·5*	− 7·9	10*	− 13
WESTBOURNE (Sussex)	6·3*	− 6·4	11*	− 10	ARLEY COTTAGE (County Cavan)	2·2	− 8·0	4	− 16
BRIGHTON	4·3	− 7·1	8	− 12	GUERNSEY	3·2*	− 7·1	5*	− 13

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 3.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 18TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 14.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	20	43·0	32·8	38·1	0 (average)	3	− 3	34	− 9	22	+ 5	74	− 54
	1. SCOTLAND, EAST	54	20	44·6	33·4	39·2	3 above	7	0	33	−12	17	− 3	92	− 41
	2. ENGLAND, N.E.	52	27	46·4	36·7	41·8	4 above	12	+ 6	23	−19	32	+ 14	60	− 63
	3. ENGLAND, EAST	53	30	46·8	35·4	41·4	4 above	13	+ 7	29	−20	38	+ 19	67	− 75
	4. MIDLAND COUNTIES	55	30	48·1	36·9	42·8	6 above	27	+19	14	−34	55	+ 31	56	− 84
	5. ENGLAND, SOUTH	54	30	47·9	37·9	43·1	4 above	25	+16	11	−28	50	+ 20	43	− 72
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	30	47·5	37·8	42·8	4 above	23	+14	12	−21	46	+ 19	44	− 52
	7. ENGLAND, N.W.	52	30	47·5	39·1	43·5	4 above	23	+16	8	−27	54	+ 32	35	− 67
	8. ENGLAND, S.W.	53	32	49·1	41·1	45·3	4 above	27	+14	3	−25	66	+ 26	32	− 51
	9. IRELAND, NORTH	52	28	48·8	39·9	44·5	5 above	26	+14	6	−23	69	+ 34	28*	− 58
	10. IRELAND, SOUTH	55	33	50·6	42·4	46·7	5 above	33	+15	0	−23	96	+ 43	22	− 47
	—CHANNEL ISLANDS	53	38	51·5	43·5	47·7	4 above	40	+20	0	−13	100	+ 36	17	− 20

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 14.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	28	14 more	17	+ 2	3·7	− 0·4	3	− 2	6	− 5	11	− 3	8	− 2
	1. SCOTLAND EAST	6	7	1 more	13	+ 2	1·2	− 0·7	7	− 1	15	− 1	16	− 7	11	− 6
	2. ENGLAND, N.E.	4	4	0 (average)	12	+ 1	1·2	− 0·2	10	+ 2	19	+ 3	13	− 12	9	− 7
	3 ENGLAND, EAST	4	4	1 less	12	+ 1	1·0	− 0·3	10	− 1	18	− 2	13	− 18	8	− 11
	4. MIDLAND COUNTIES	4	3	3 less	10	− 1	0·8	− 0·8	8	− 2	14	− 4	12	− 17	7	− 11
	5. ENGLAND, SOUTH	4	2	4 less	9	− 1	0·6	− 1·2	6	− 5	10	− 9	12	− 20	7	− 12
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	12	1 less	13	0	2·2	− 1·5	6	− 2	11	− 5	16	− 7	10	− 5
	7. ENGLAND, N.W.	5	9	2 more	9	− 2	1·5	− 0·6	8	+ 1	14	+ 2	13	− 13	11	− 5
	8. ENGLAND, S.W.	6	5	4 less	10	− 2	1·0	− 1·7	10	− 2	17	− 4	21	− 15	12	− 9
	9. IRELAND, NORTH	6	11	2 more	13	0	2·0	− 0·5	5	− 5	10	− 9	12	− 17	8	− 10
	10. IRELAND, SOUTH	5	5	5 less	10	− 2	1·2	− 1·5	6	− 6	11	−11	16	− 21	10	− 13
	—CHANNEL ISLANDS	6	3	4 less	12	− 2	1·0	− 1·3	13	− 1	21	− 2	22	− 17	13	− 9

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was unsettled, with rain at times, during the earlier half of the period, but subsequently became fair over the greater part of the Kingdom. In the extreme west and north, however, the conditions continued unsettled throughout the week.

Temperature was just equal to the mean in Scotland N., but exceeded it considerably in all other districts, the excess ranging from 3° in Scotland E., to 5° in Ireland, and to 6° in the Midland counties. The highest of the maxima were recorded on the 17th, when they varied from 55° in the Midland counties and Ireland S., to 51° in Scotland N. The lowest of the minima were registered during the early or middle part of the period, and ranged from 20° in Scotland N. and E., to 32° in England S.W., 33° in Ireland S., and to 38° in the Channel Islands.

Rainfall greatly exceeded the mean in Scotland N., and to a slight extent in Scotland E., England N.W., and Ireland N., while in England N.E. the fall just equalled the normal. In all other districts there was a deficit.

Bright Sunshine was more prevalent generally than it has been of late, but was still less than the normal, except in England N.E. and N.W. The percentage of the possible duration ranged from 21 in the Channel Islands, and 19 in England N.E., to 10 in England S. and Ireland S., and to 6 in Scotland N.

Barometer and Wind.—At the commencement of the period the anticyclone noticed in last week's Report was moving southwards and decreasing in intensity, while depressions were travelling eastwards far to the northward of the United Kingdom. As the week progressed the movement of large and deep depressions from the Atlantic to Scandinavia continued, and by Tuesday a well-defined secondary system had reached the south-east of England from the north-westward. During the latter part of the period the track of the depressions lay more to the southward, their centres just skirting the north of Scotland. The wind blew mainly from between West and North-West throughout, and was frequently strong in force, occasionally attaining the strength of a gale. The North-Westerly gale experienced over the north-east of Scotland during the night of the 15th was very severe.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 13 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	47	23	40·4	29·3	35·1	− 4·8	0	48	7	1·24	+0·36	*	*	*	*
	Stornoway	51	30	44·7	33·7	39·4	+ 0·9	8	32	7	3·45	+2·27	21·5	− 4·7	23	−10
	Wick	50	20	42·1	30·9	36·7	− 0·9	0	41	7	1·50	+0·98	*	*	*	*
	Glencarron ℌ	50	23	42·0	31·6	37·0	0·0	0	35	6	4·58	+2·31	*	*	*	*
	Fort Augustus ℌ	51	25	43·4	33·0	38·4	+ 0·4	4	34	7	1·73	+0·68	4·1	+ 1·1	8	+ 1
	Fort William ℌ	51	29	45·4	38·0	41·9	+ 2·7	10	18	7	4·06	+1·91	3·2	− 2·2	6	− 6
1. SCOTLAND, E.	Nairn	54	26	45·7	33·1	39·7	+ 2·6	10	36	6	1·05	+0·60	*	*	*	*
	Aberdeen	52	29	43·9	34·6	39·4	+ 2·1	5	28	5	0·41	−0·13	17·8	+ 6·0	33	+13
	Braemar ℌ	47	20	39·5	30·1	35·0	+ 0·8	0	49	7	0·83	+0·12	3·7†	− 0·8†	7†	− 2†
	Ochtertyre ℌ	52	26	45·9	34·1	40·2	+ 3·0	11	32	6	0·81	−0·29	*	*	*	*
	Leith	51	29	47·9	34·6	41·5	+ 2·3	17	32	6	0·29	−0·11	*	*	*	*
	Marchmont ℌ	49	25	44·7	34·0	39·6	+ 3·5	8	32	4	0·73	+0·14	3·5	− 5·7	7	−11
2. ENGLAND, N.E.	Alnwick Castle	?50	27	44·7	35·0	40·0	+ 2·0	8	27	4	0·65	+0·15	*	*	*	*
	Durham	51	29	45·9	36·6	41·4	+ 3·0	11	23	4	0·34	−0·12	14·4	+ 4·4	27	+ 8
	Shields	52	32	47·4	35·9	41·9	+ 3·8	15	27	4	0·64	+0·25	*	*	*	*
	Scarborough ℌ	51	33	46·6	37·4	42·2	+ 4·1	21	13	4	0·51	+0·06	*	*	*	*
	York	52	33	48·4	37·3	43·1	+ 6·0	27	13	3	0·25	−0·13	6·7	0·0	12	0
	Spurn Head	49	34	45·6	37·9	41·9	+ 4·1	10	18	2	0·24	−0·11	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	51	30	45·8	35·5	40·9	+ 4·5	11	27	3	0·56	+0·11	10·5	+ 0·3	19	0
	Yarmouth	50	32	44·7	35·3	40·2	+ 3·0	8	27	5	0·41	−0·04	*	*	*	*
	Geldeston	53	31	47·9	34·9	41·7	+ 4·0	17	31	4	0·34	−0·02	12·4	+ 0·7	22	+ 1
	Cambridge	52	31	48·1	35·3	42·0	+ 5·0	17	19	3	0·27	−0·06	7·5	− 3·5	13	− 7
	Rothamsted	52	32	47·7	36·2	42·2	+ 5·5	26	16	4	0·24	−0·32	5·0	− 1·1	16	− 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	31	48·0	37·0	42·7	+ 5·7	26	14	3	0·14	−0·26	*	*	*	*
	Loughborough	53	33	48·6	38·0	43·5	+ 6·3	27	11	4	0·29	−0·16	*	*	*	*
	Stamford (Ketton Hall)	53	30	48·7	35·7	42·5	+ 5·9	30	18	3	0·07	−0·35	*	*	*	*
	Cheadle ℌ	52	32	46·5	35·8	41·4	+ 5·1	13	27	4	0·76	+0·15	*	*	*	*
	Solihull	51	32	47·5	35·0	42·0	+ 5·0	15	17	5	0·23	?	*	*	*	*
	Churchstoke ℌ	51	34	47·3	38·9	43·3	+ 6·0	22	9	6	0·33	−0·29	11·2	+ 1·0	20	+ 1
	Hereford ℌ	53	33	50·1	37·9	44·2	+ 6·1	33	11	5	0·09	−0·47	*	*	*	*
	Cirencester	55	30	48·6	36·3	42·7	+ 5·6	29	16	2	0·13	−0·55	7·2	− 4·0	13	− 7
	Oxford	53	33	48·0	36·7	42·6	+ 4·6	23	15	4	0·17	−0·32	6·0	− 4·6	11	− 8
5. ENGLAND, S.	London	52	35	48·4	38·3	43·2	+ 4·7	27	12	5	0·23	−0·24	3·2†	− 2·4†	6†	− 4
	North Foreland	51	37	47·1	37·6	42·5	+ 3·8	23	12	3	0·29	?	*	*	*	*
	Strathfield Turgiss ℌ	54	32	48·5	26·6	42·8	+ 5·4	28	15	4	0·13	−0·40	*	*	*	*
	Dungeness	48	30	46·6	37·0	42·0	+ 2·9	13	14	5	0·15	−0·40	*	*	*	*
	Hastings (St. Leonards)	53	34	48·1	37·8	43·2	+ 4·1	26	12	5	0·29	−0·31	5·7	− 7·8	10	−14
	Southampton	53	36	48·6	39·6	44·3	+ 5·0	26	7	3	0·16	−0·56	3·4	− 8·4	6	−15
	Hurst Castle	52	35	48·1	39·9	44·2	+ 4·1	24	6	3	0·18	−0·46	*	*	*	*
	Stowell ℌ	52	32	47·8	37·4	42·8	+ 4·6	25	13	6	0·28	−0·47	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	32	49·5	35·5	42·8	+ 3·2	33	18	7	1·94	−0·01	*	*	*	*
	Glasgow	50	30	45·3	37·5	41·6	+ 3·4	9	19	6	0·99	+0·12	2·9	− 2·0	6	− 4
	Ardrossan	51	31	47·6	37·1	42·6	+ 2·7	25	14	6	0·65	−0·22	*	*	*	*
	Glenlee ℌ	51	30	46·3	37·7	42·3	+ 5·3	20	12	7	1·64	−0·01	*	*	*	*
	Douglas (Isle of Man)	50	35	48·4	41·1	44·9	+ 4·7	24	3	6	0·76	−0·22	8·3	− 2·7	15	− 6
7. ENGLAND, N.W.	Stonyhurst	47	32	45·1	37·4	41·4	+ 4·2	9	19	7	1·92	+1·02	6·6	− 1·6	12	− 3
	Blackpool ℌ	50	30	47·4	37·5	42·7	+ 4·8	24	13	6	0·51	−0·12	9·4	+ 1·0	17	+ 2
	Manchester (Prestwich)	52	33	46·9	37·7	42·5	+ 5·1	22	12	5	1·14	+0·44	5·6	?	10	?
	Liverpool Obsy. (Bidston)	52	34	48·7	39·4	44·2	+ 5·1	26	7	5	0·72	+0·24	*	*	*	*
	Llandudno ℌ	51	38	48·0	41·7	45·0	+ 3·9	22	1	5	0·59	−0·02	14·0	+ 4·2	25	+ 7
	Holyhead	51	39	48·9	40·9	45·1	+ 3·2	26	3	4	0·57	−0·16	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	33	49·1	38·1	43·8	+ 3·7	29	11	7	0·82	−0·34	*	*	*	*
	Pembroke	50	38	49·3	42·7	46·1	+ 4·0	29	0	4	0·43	−0·40	9·7	− 2·3	17	− 4
	Bristol (Montpelier)	51	32	48·6	39·7	44·3	+ 4·3	26	6	4	0·12	−0·64	*	*	*	*
	Arlington (N. Devon)	50	36	48·4	40·1	44·4	+ 4·4	25	5	5	1·14	+0·16	*	*	*	*
	Cullompton ℌ	53	32	49·5	39·6	44·8	+ 5·4	30	7	4	0·28	−0·40	12·9	+ 3·2	22	+ 5
	Falmouth	53	38	49·7	44·1	47·0	+ 3·7	35	0	6	0·45	−0·73	13·0	+ 0·4	22	+ 1
	Plymouth	53	38	49·6	44·5	47·2	+ 5·6	36	0	7	0·28	−0·60	7·8	− 3·4	13	−
	Prawle Point	51	33	48·9	40·3	44·8	+ 3·5	27	5	7	0·45	−0·20	*	*	*	*
9. IRELAND, N.	Malin Head	49	28	47·6	39·4	43·7	+ 2·5	23	7	7	1·60	?	*	*	*	*
	Londonderry	51	36	49·4	40·0	44·9	+ 4·9	29	6	6	1·72	+0·83	*	*	*	*
	Edenfel (Omagh)	50	35	48·6	38·1	43·6	+ 5·9	28	11	7	0·97	+0·18	*	*	*	*
	Belmullet	52	37	50·0	43·3	46·8	+ 4·1	34	0	7	1·03	−0·19	*	*	*	*
	Markree Castle	52	35	50·2	40·9	45·7	+ 6·5	31	3	5	1·00	+0·13	5·2	− 4·3	10	− 8
	Brookeborough												*	*	*	*
	Armagh	52	36	49·0	40·0	44·7	+ 6·2	27	6	5	0·80	+0·16	6·5	− 3·3	12	− 7
	Donaghadee	52	36	48·4	39·3	44·0	+ 3·9	25	8	5	0·52	−0·13	*	*	*	*
	Edgeworthstown	50	32	47·4	38·2	43·0	+ 4·6	23	11	5	0·78	+0·16	*	*	*	*
10. IRELAND, S.	Dublin	54	37	51·6	41·7	46·3	+ 5·1	31	1	5	0·36	−0·14	9·8	− 3·4	18	− 6
	Parsonstown	52	33	50·4	40·4	45·6	+ 6·0	32	4	4	0·23	−0·45	4·3	− 7·1	8	−13
	Kilkenny	52	37	49·3	41·1	45·4	+ 4·7	28	3	5	0·37	−0·40	*	*	*	*
	Roche's Point	55	38	51·9	43·0	47·6	+ 4·5	39	0	3	0·10	−1·10	*	*	*	*
	Valencia	53	34	51·7	43·7	47·9	+ 3·1	41	0	7	0·54	−0·92	3·3	− 9·3	6	−16
	Killarney	53	35	50·9	43·8	47·5	+ 4·3	39	0	6	1·01	?	*	*	*	*
	Foynes	52	38	49·7	43·3	46·6	+ 5·6	32	0	6	0·58	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	41	51·9	45·0	48·6	+ 3·2	46	0	6	0·23	−0·57	13·0	?	22	?
	Jersey	53	38	51·0	42·0	46·7	+ 4·8	33	0	6	0·42	−0·30	10·9	− 4·9	18	− 9

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

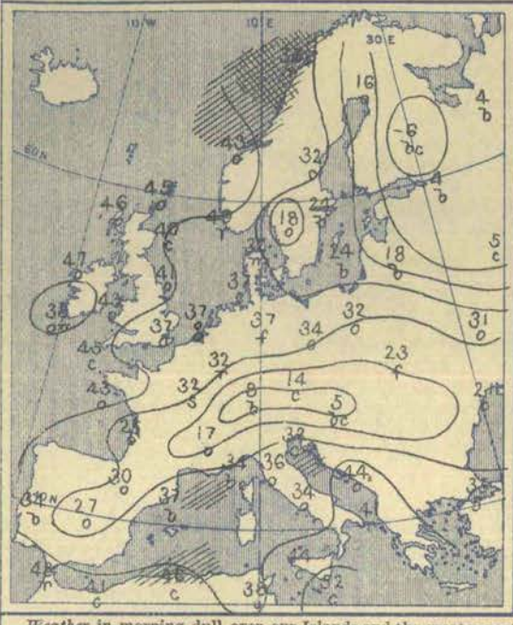
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 12th January.

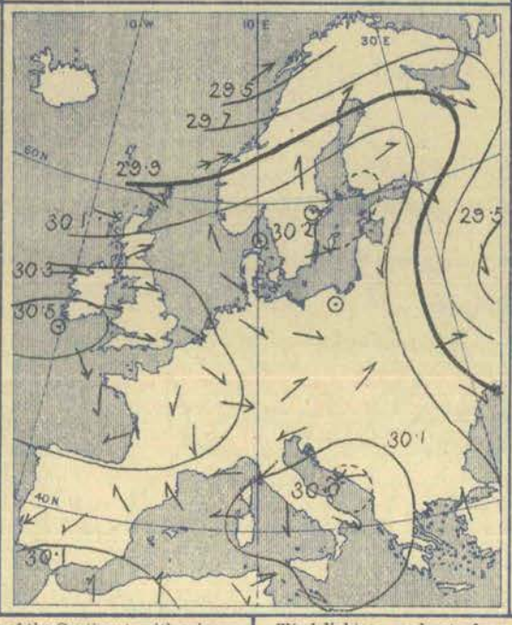
Temperature and Weather.

8 a.m.

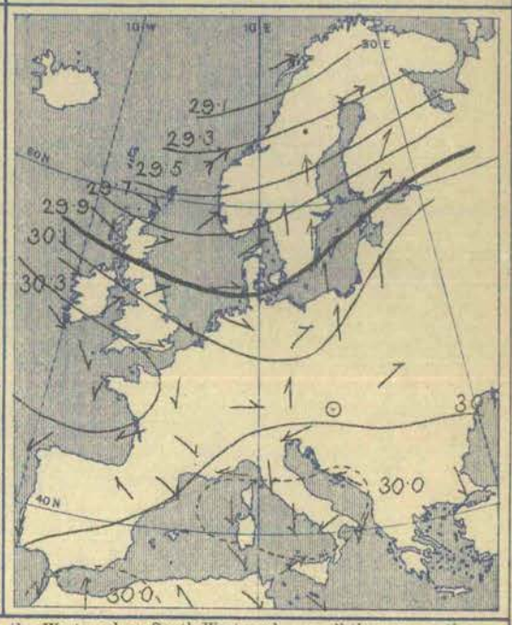


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over our Islands and the greater part of the Continent, with rain on our extreme north-west coasts, as well as in the west of Norway, and at Brindisi and San Fernando; snow falling at Paris and Le Mans, and also at Breslau. Fine over the Baltic and the south of Sweden, as well as in Austria and the extreme south of France. Sky clearing later on our north-east coasts, but rain falling in most other parts of the Kingdom, as well as at many of the Continental stations.

Temperature changed irregularly in our Islands, risen in most of the central and eastern countries, fallen elsewhere—quickly over Sweden and Finland. Morning readings highest, (1) 52° at Malta, 48° at San Fernando, and 46° at Algiers; (2) 47° at Belmullet, and 46° at Stornoway. Lowest, (1) – 6° Fahr. at Kuopio, + 4° at Archangel and St. Petersburg, 5° at Moscow; (2) 5° at Vienna and Buda Pesth, and 8° at Munich; below the freezing point over northern and central Europe generally, as well as in central Spain. Daily maxima over England very little above 40°, but thermometer rising to between 45° and 49° on our western and extreme northern coasts. Remaining below the freezing point in many parts of Germany and central France.

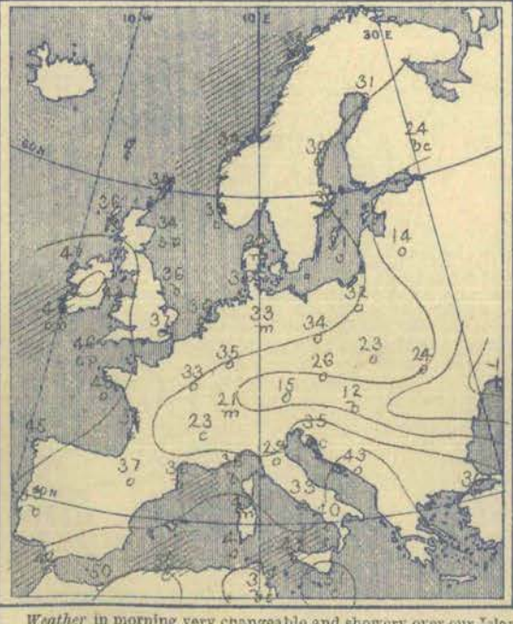
Wind light to moderate from the Westward or South-Westward over all the more northern parts of our Islands, and strong to a gale from the same quarters in the west of Norway. Light from the North-Westward or Northward over the south of our Islands, the Netherlands, and the north of France; North-Easterly over the central and southern parts of France and the Spanish Peninsula. Light to moderate from the North-Westward in Russia; calm in Austria; variable in Italy. Subsequently veering to the North-Westward at some of our own northern stations, and blowing strongly in places; South-Westerly gales setting in over the Gulf of Finland.

Barometer highest, 30·5 ins. and upwards in the extreme south-west of the United Kingdom; 30·1 ins. and upwards in an anticyclone covering the greater part of our Islands and the Continent. Lowest, 29·5 ins. and less in two depressions—one lying off the north-west of Norway, and the other over central Russia; 30·0 ins. and less in a shallow system over the Adriatic. Norwegian depression subsequently spreading southwards, and barometer falling in all the more northern parts of Europe.

Monday, 13th January.

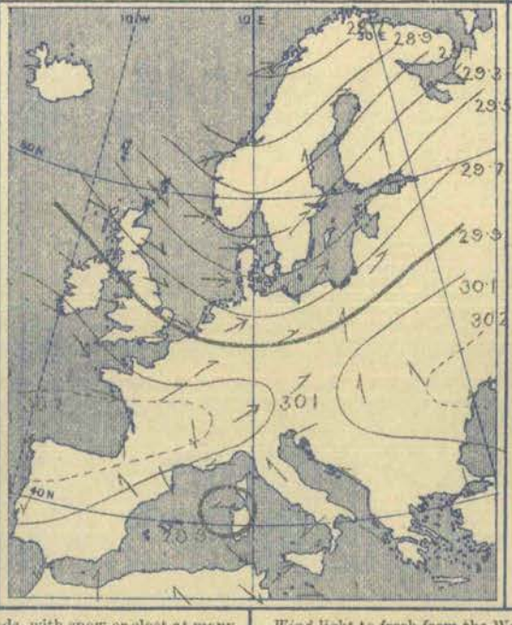
Temperature and Weather.

8 a.m.

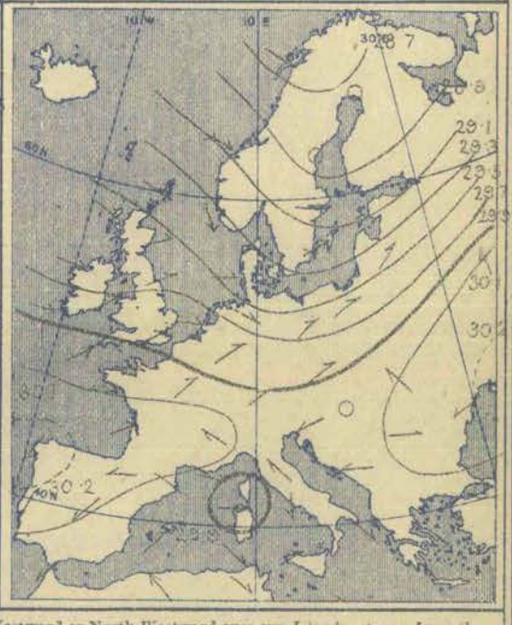


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very changeable and showery over our Islands, with snow or sleet at many of the Scotch stations. Cloudy or dull over the greater part of the Continent, with rain at Copenhagen and Münster, and also at San Fernando, and with snow at Christiansund, Karlstad, and Uleaborg. Fine in the extreme south of France, as well as at some of the Adriatic stations. Rain falling later over western Europe generally, and snow at Lyons and Aumale.

Temperature fallen in the northern parts of our Islands and Scandinavia, as well as in the south of Russia, but risen in most other localities. Morning readings highest, (1) 51° at Malta, 50° at Nemours and Algiers, and 47° at Palermo and Oran; (2) 48° at Brest, and 47° at Belmullet and Valencia (Ireland). Lowest, – 1° Fahr. at Nicolaieff, + 9° at Odessa, 12° at Vienna, and 14° at Riga; below the freezing point over the greater part of northern, eastern, and central Europe, and very little above it in the north of Scotland. Daily maxima below 40° in the north of Scotland, with sharp frost at night. Thermometer exceeding 50° in some parts of Spain and southern Italy.

Wind light to fresh from the Westward or North-Westward over our Islands, strong from the Westward on the eastern shores of the North Sea, and blowing a gale from the same quarter in the west of Norway; Southerly or South-Westerly over Sweden, northern Russia, the Baltic, and Germany, with a gale in the Gulf of Finland. Light from the Eastward or North-Eastward over northern Italy and the extreme south of France; light from West or South-West over southern Italy. North-Easterly or Northerly in Spain. Subsequently backing to the South-Westward on many parts of our western coasts, and increasing in force; veering to the North-Westward in the west of Norway.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, and the western and central parts of France. Lowest, 28·7 ins. and less in a depression over the extreme north-west of Norway. Depression subsequently spreading slowly southwards. Secondary disturbance approaching our own north-west coasts in evening, and afterwards travelling across the Kingdom in an east-south-easterly direction.

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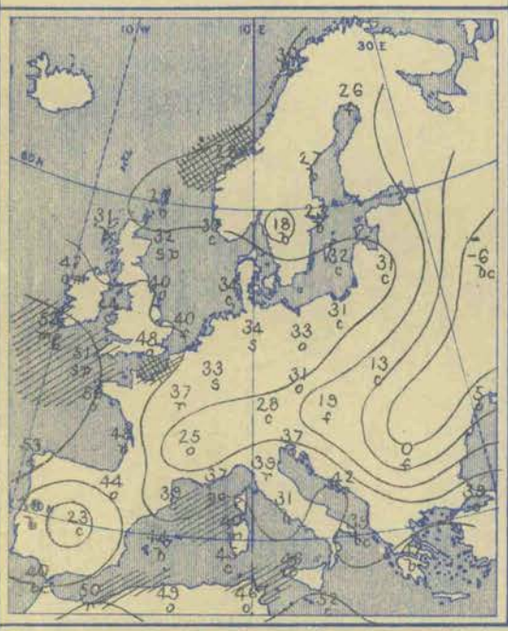
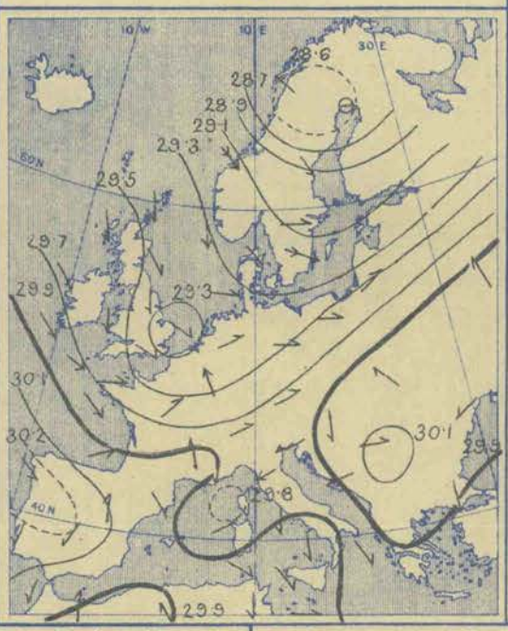
Tuesday, 14th January.

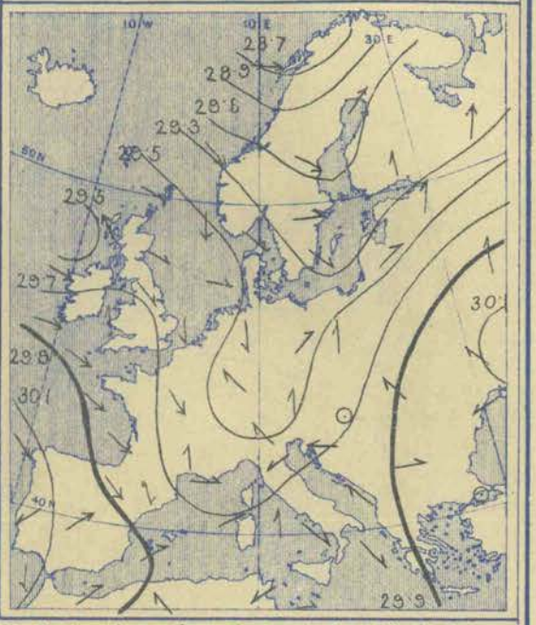
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of Scotland, Scandinavia, and Denmark, as well as over Greece, and the southern parts of Spain and Italy. Cloudy or dull elsewhere, with rain in many places, and with snow at Cuxhaven, Brussels, and Belfort. Fog reported at some of the Austrian stations. Improvement taking place later over England and the Netherlands, but rain setting in over Scotland at night. Snow falling in many parts of central Europe.

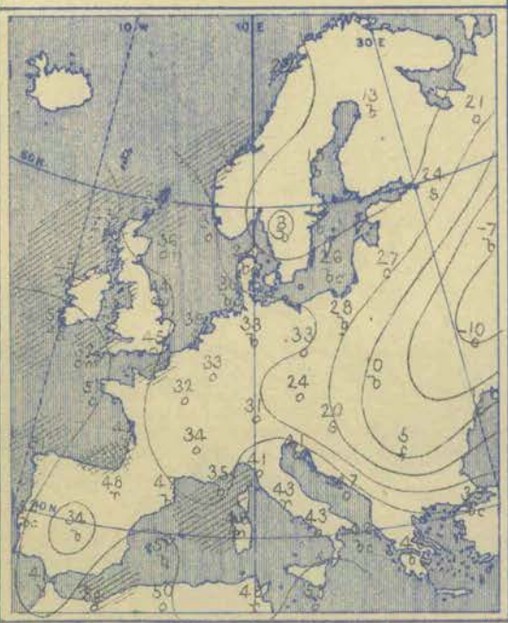
Temperature fallen in Scotland, Scandinavia, Denmark, and Germany, risen in most other countries. Morning readings highest, (1) 52° at Valencia (Ireland) and Jersey, and 51° at Roche's Point and Scilly (above 45° over the south-western and southern parts of our Islands generally); (2) 52° at Malta, and 50° at Nemours. Lowest, – 6° Fahr. at Moscow, 0° zero at Nicolaieff and Hermanstadt, + 5° at Odessa, and 13° at Lemberg; below the freezing point over northern and central Europe generally, and also over the central parts of Spain and Italy. Rising during day to 45° and upwards in most parts of the United Kingdom, and to between 50° and 53° on our west and south-west coasts. Frost occurring in many parts of Great Britain at night.

Wind light to moderate from the Northward over the northern parts of our Islands, strong from the North-Westward or Westward on our south and south-west coasts, and in the north of France; light to fresh from the Southward over the Netherlands and east of France; Westerly or North-Westerly in Scandinavia, with a gale at Christiansund and Wisby; South-Westerly over Germany; variable in Austria; Northerly or North-Westerly in Italy; North-Easterly over the greater part of Spain. Subsequently veering to the Northward in the south-east of England, but backing to the Southward on our north-west coasts.

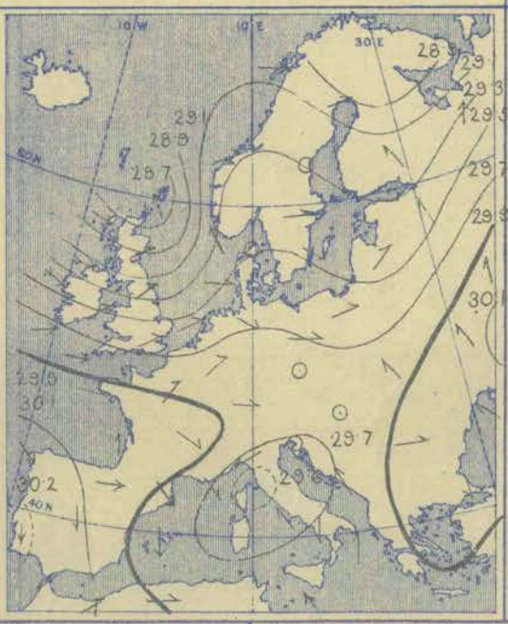
Barometer highest, 30·2 ins. and upwards over the central and north-western parts of Spain; 30·1 ins. and upwards over the south of Russia. Lowest, 28·6 ins. and less in a depression over the north of Scandinavia; 29·3 ins. and less in a well-marked secondary system over the east of England. Depression in far north subsequently moving northward and partially filling up; secondary disturbance travelling south-eastwards, and dispersing over western Germany.

Wednesday, 15th January.

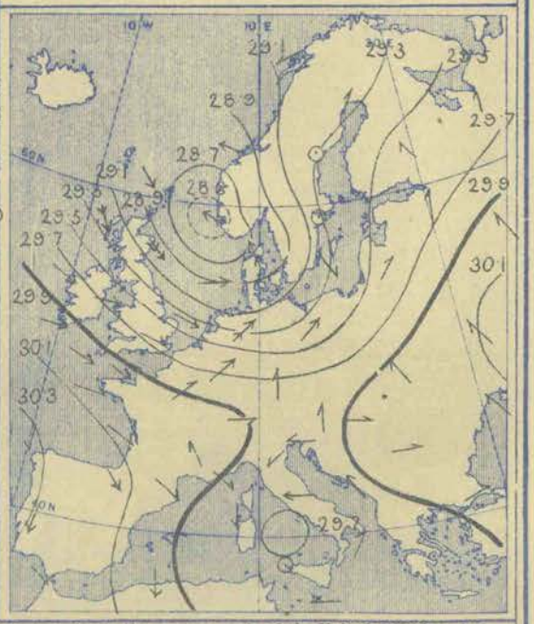
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of western and central Europe, with rain in the west and north of our Islands, as well as in Holland, the south-west of France, and the north of Spain, and with snow at Breslau and Vienna. Fine over Sweden, Denmark, and the Baltic, as well as in the extreme south of France, and the central and southern parts of Spain; dull in Italy, with rain at Rome. Rain falling during day in most parts of England, Ireland, and France, and snow in Scotland, and many parts of northern and central Europe.

Temperature risen in all but the south-eastern parts of our Islands, as well as over southern Europe generally, but fallen in most other localities. Morning readings highest, (1) 54° at Nemours and Oran, 53° at Malta, and 52° at Lisbon; (2) 52° at Valencia (Ireland) and Scilly, and 51° at Brest; above 45° in all but the extreme northern and eastern parts of our Islands. Lowest, – 10° Fahr. at Kiev, – 9° at Kharkov, – 7° at Moscow, + 5° at Hermanstadt, and 6° at Nicolaieff; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50° and upwards over England and Ireland generally, as well as in the west and south of France, but remaining below 45° in the north of Scotland.

Wind strong to a gale from the Westward over the western parts of the United Kingdom, but moderate from the South-Westward on our eastern and southern coasts, as well as in the Netherlands and the north of France; strong from the South-Eastward in the Shetlands, and at Skudesnaes. Westerly over the greater part of Scandinavia, Denmark, and Germany, but South-Easterly in Russia. Variable in Italy; North-Westerly in the extreme south of France; Northerly over the Spanish Peninsula. Subsequently veering to the Westward or North-Westward over our Islands generally, and blowing a gale in many places; gale very severe on the north-east coasts of Scotland. Strong South-Easterly gales setting in on the Norwegian coasts.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the Portuguese coasts; 30·1 ins. and upwards over the south of Russia. Lowest, 28·7 ins. and less in a deep depression lying off the north of Scotland; 28·9 ins. and less in another disturbance over Lapland; 29·6 ins. and less in a shallow system over the Gulf of Genoa. Depression off our northern coasts subsequently moving eastwards; barometer rising quickly in Scotland, but falling rapidly in Norway and Denmark.

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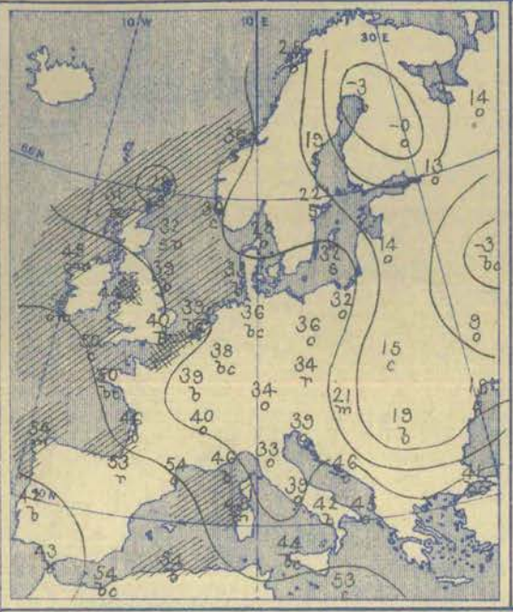
Thursday, 16th January.

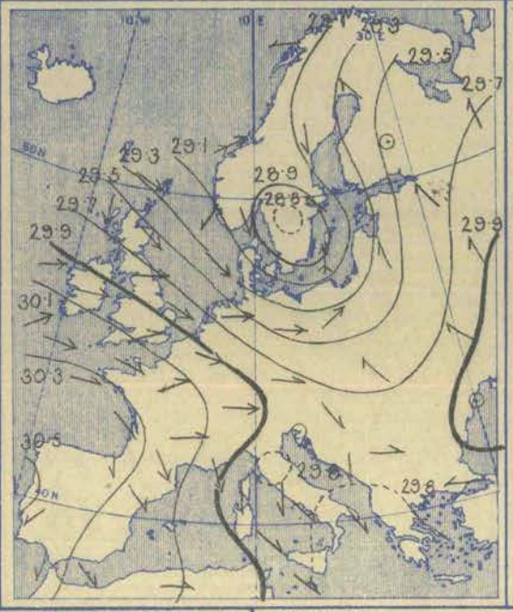
Temperature and Weather.

8 a.m.

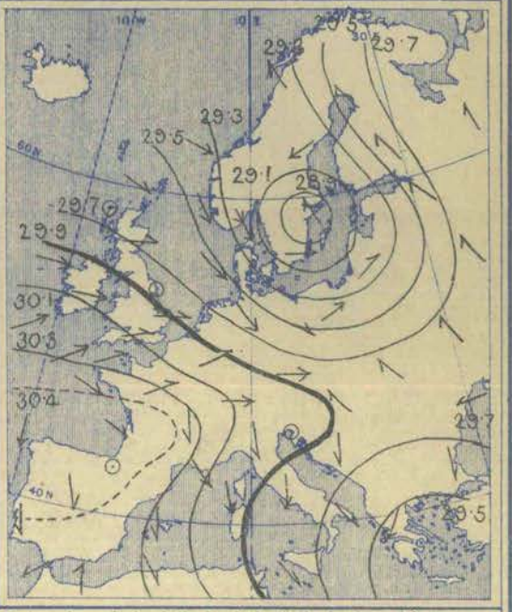


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England, France, Spain, and the Netherlands, but showers of hail or snow reported in Scotland and the north of Ireland. Dull in Russia, Germany, Austria, and Italy; snow falling at many of the Scandinavian stations. Showers occurring during day in many parts of western Europe, and snow or sleet falling in Scotland—heavily at Stornoway. Snow reported also over the northern and central parts of Russia.

Temperature fallen in our Islands, and also over Italy and the northern parts of Russia, risen in most other countries. Morning readings highest, (1) 54° at Perpignan, Corunna, Oran, and Algiers, and 53° at Biarritz and Malta; (2) 50° at Valencia (Ireland), Scilly, and Brest; above 45° on our south-west coasts generally. Lowest, − 3° Fahr. at Haparanda, Kuopio, and Moscow, + 3° at Uleaborg and Kharkov, 9° at Kiev, and 13° at St. Petersburg; below the freezing point in Austria, and also in Scandinavia and the north of Scotland. Rising during day to 50° and upwards at several of our own western and southern stations, and reaching 55° at Roche's Point; exceeding 55° in Spain and the Riviera.

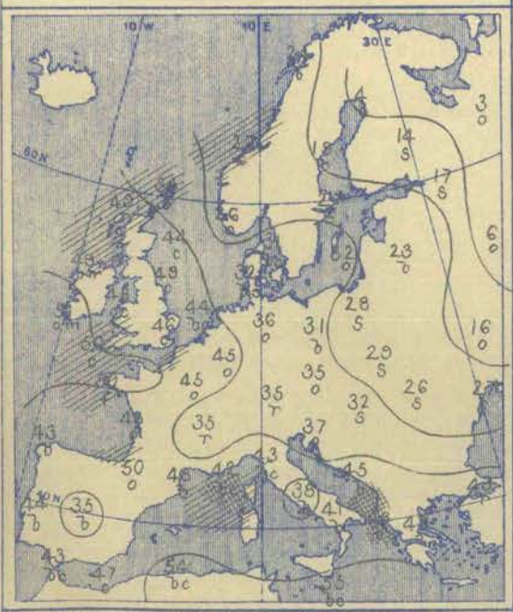
Wind fresh or strong from the Westward over Ireland, England, the Netherlands, and Germany; strong from North-West over Scotland and the eastern shores of the North Sea; Southerly or South-Easterly over Russia and the south of Sweden, with a gale at Wisby; Easterly in the north of Scandinavia. Light to moderate from the North-Westward over Italy, and the west and south of France; North-Easterly over the Spanish Peninsula. Wind in Scotland subsiding later, and backing to the Westward. Gales from various directions setting in over Denmark, the Gulf of Finland, and the south of Scandinavia.

Barometer highest, 30·4 ins. and upwards over the western parts of the Spanish Peninsula; 30·0 ins. and upwards in the south of Russia. Lowest, 28·8 ins. and less in a well-marked depression over the south of Sweden (gradients rather steep over the northern parts of our Islands and the Continent generally); 29·8 ins. and less in a shallow area over the southern parts of Italy and the Adriatic, and also in a small system over the Gulf of Genoa. Swedish depression subsequently moving eastwards; barometer rising briskly in Norway and Denmark, but becoming very unsteady in our Islands.

Friday, 17th January.

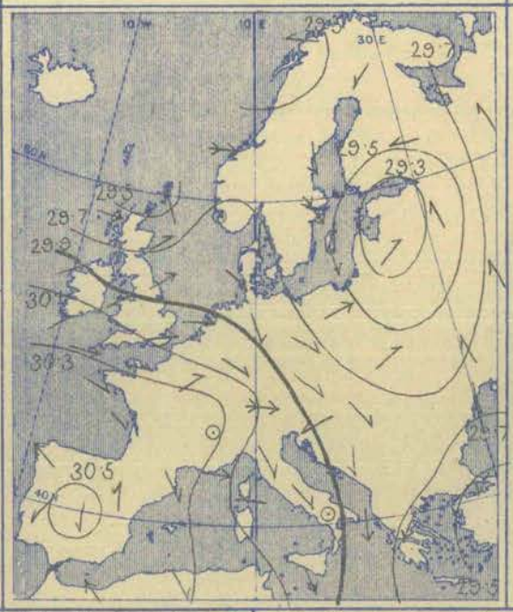
Temperature and Weather.

8 a.m.

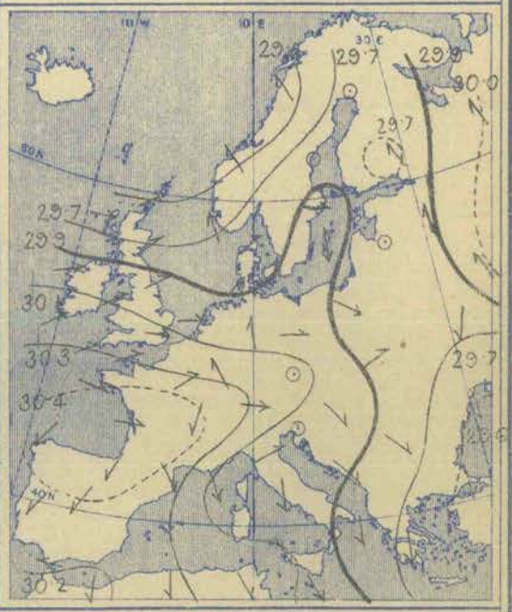


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over southern Europe generally, and also in Scandinavia and Denmark, cloudy or dull elsewhere, with rain at Stornoway, as well as in western Germany and the east of France; snow falling at Sumburgh Head, and also over Finland, Poland, and Austria. A little rain falling later at several of our own western stations, and larger quantities in the Shetlands and Hebrides, but weather improving in the eastern parts of Great Britain.

Temperature risen at all but the Norwegian, German, and Italian stations, quickly over Scotland. Morning readings highest, (1) 55° at Malta, and 54° at Algiers, (2) 51° at Valencia (Ireland), and 50° at Scilly and Jersey; above 45° over the greater part of the United Kingdom. Lowest, 3° at Archangel, 4° at Haparanda, 6° at Moscow, and 8° at Uleaborg; below the freezing point over Russia, Scandinavia, and Denmark generally, as well as at some of the German and Austrian stations. Rising during day to 50° and upwards in nearly all parts of our Islands, and reaching 54° at Nairn; exceeding 55° in Sicily, Spain, and the south-west of France, and reaching 63° at San Fernando.

Wind Westerly or South-Westerly over our Islands, the Netherlands, western Germany, and the north of France; strong in force on our northern coasts, with a gale at Ardrossan. Northerly in Sweden, with gales at Stockholm and Wisby; North-Westerly over Denmark, eastern Germany, and Austria; South-Westerly over the Baltic provinces; South-Easterly over the greater part of Russia; North-Easterly over the Spanish Peninsula, but North-Westerly in the south of France, as well as at many of the Italian stations. No important change occurring over our Islands during day, but strong South-Easterly winds setting in on the west coast of Norway.

Barometer highest, 30·4 ins. to 30·5 ins. in an anticyclone lying over Spain, the Bay of Biscay, and the central and south-western parts of France. Lowest, 29·3 ins. and less in a depression over Gothland and the Baltic provinces; 29·5 ins. and less in two other disturbances—one lying off the north of Scotland, and the other over Asia Minor. Depression over Baltic provinces moving south-eastwards and filling up; Scotch disturbance travelling north-eastwards.

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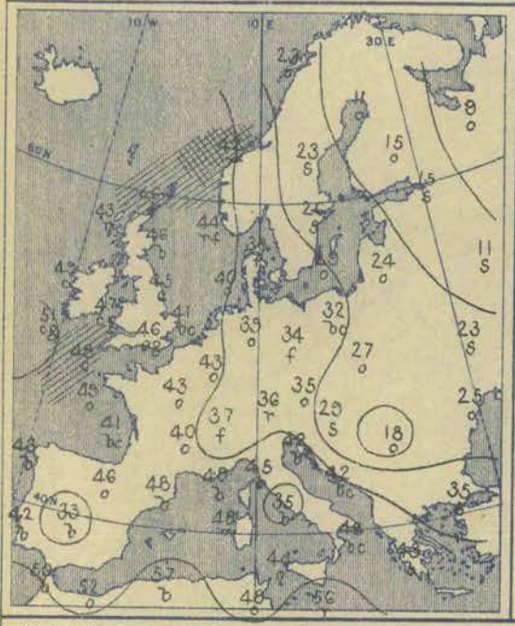
Saturday, 18th January.

Temperature and Weather.

8 a.m.

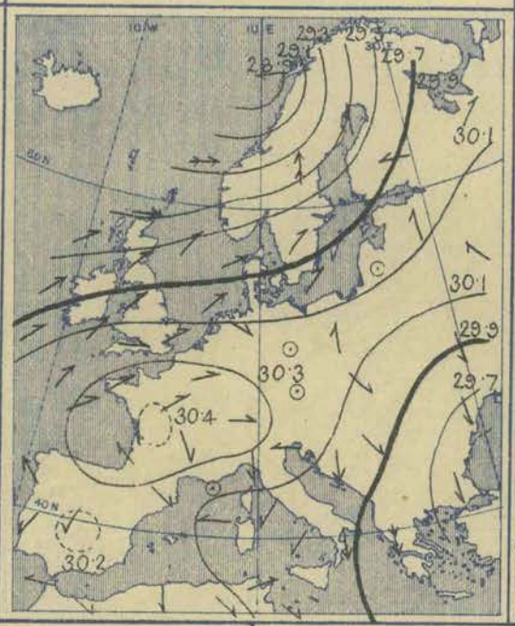


Weather in morning fine in the eastern parts of Great Britain, as well as over the west of France and the greater part of southern Europe. Cloudy or dull elsewhere, with rain at Roche's Point, and in the extreme north of Scotland, as well as at some of the Scandinavian stations, and at Munich. Snow falling in several parts of Sweden, Russia, and Austria. Heavy rain falling during day in the north of Scotland, and slight amounts at several of our western and southern stations, but weather remaining fine in the east of Great Britain.

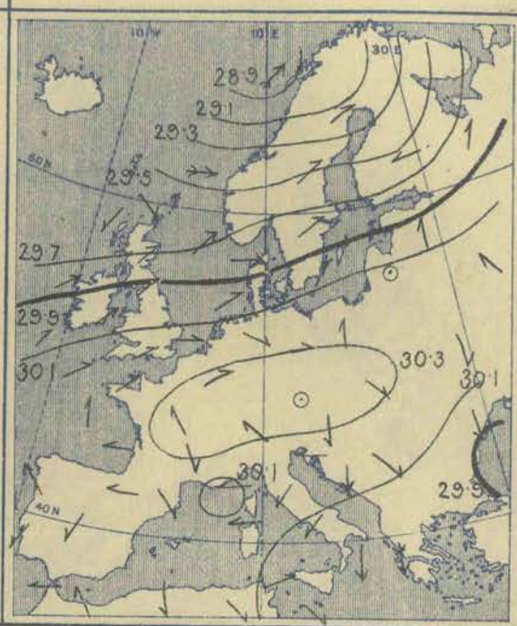
Temperature risen in Scandinavia and Denmark, and fallen in Austria and the south of Russia, but changed irregularly elsewhere. Morning readings highest, (1) 57° at Algiers, 56° at Malta, and 56° at San Fernando; (2) 51° at Valencia (Ireland), and 49° at several of our own western and northern stations. Lowest, 9° at Archangel, 11° at Uleaborg and Moscow, 14° at Haparanda, and 15° at Kuopio and St. Petersburg; below the freezing point over Sweden, Russia, and Austria generally. Rising during day to 50° and upwards at many of our western and northern stations; exceeding 55° over the Spanish Peninsula and the south of France, and reaching 68° at Oporto.

Barometer and Wind.

8 a.m.



6 p.m.



Wind South-Westerly over our Islands, the north of France, the Netherlands, Denmark, and the south of Scandinavia; light or moderate in force generally, but strong on our north-west coasts. Southerly over Sweden, and the northern and central parts of Russia, with a gale at Hernösand; Easterly in the north-west of Norway. Northerly or North-Westerly in Austria; Northerly or North-Easterly in Spain and Italy; Easterly in the west of France. Subsequently increasing to a gale from the South-Westward in the north of Ireland, but shifting to the Northward in the north of Scotland.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Bay of Biscay, France, and the southern parts of Germany. Lowest, 29·0 ins. and less in a depression off the north-west of Norway (gradients rather steep over Scandinavia and Finland); 29·6 ins. and less in another disturbance over the Black Sea. Northern depression subsequently spreading eastwards, but new disturbance beginning to approach our own western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the exceptionally high anticyclone hitherto noticed over our Islands decreased in intensity and passed away to the southward, a new one being, however, developed at the same time over the south of Russia. Large cyclonic systems now advanced over Scandinavia from the westward, and spread down in a south-easterly direction; while on the night of the 13th, a well-marked secondary disturbance travelled east-south-eastwards across our Islands, strong winds or gales from the Westward being experienced over north-western Europe generally, with rain in the western countries, and with snow in the north. On the 15th, a deep depression moved eastwards along the extreme north of Scotland, the wind in its rear increasing to a severe gale from the North-Westward in the north-east of that country, and blowing strongly in many other parts of our Islands. At Hillington (Norfolk), a squall of tornado strength was experienced on the afternoon of the 15th.

During the latter part of the week the anticyclone previously lying off the Portuguese coasts spread gradually northwards, while the Russian high pressure system gave way. An improvement in the weather now set in over the southern parts of our Islands and the Continent, but in the more northern regions the conditions were still under the influence of large depressions which passed across Scandinavia, strong Westerly winds, with rain or snow, being experienced in many places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	4·1	− 3·3	8	− 7	EASTBOURNE	5·0	− 7·2	9	− 12
OSWALDKIRK (Yorkshire)	10·1	+ 1·5	19	+ 3	MANCHESTER (Oldham Road)	3·1*	?	6*	?
WORKSOP	7·1	− 1·1	13	− 2	TENBY				
THURCASTON (Leicestershire)	7·9	− 1·1	14	− 2	NEWQUAY	8·1	− 4·7	14	− 6
MARGATE	6·0	− 3·8	10	− 7	TORQUAY	7·3*	− 6·2	12*	− 11
WESTBOURNE (Sussex)	10·5*	− 2·2	18*	− 4	ARLEY COTTAGE (County Cavan)	4·4	− 6·4	8	− 12
BRIGHTON	8·2	− 3·2	14	− 6	GUERNSEY	14·5*	+ 3·5	24*	+ 5

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 4.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 25TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 20.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	22	43·7	33·6	38·9	1 above	5	− 2	32	−11	27	+ 3	106	− 65
	1. SCOTLAND, EAST	50	18	43·7	30·7	37·4	1 above	5	− 3	42	− 3	22	− 6	134	− 44
	2. ENGLAND, N.E.	51	26	43·1	32·0	37·5	0 (average)	3	− 3	38	− 3	35	+ 11	98	− 68
	3. ENGLAND, EAST	53	20	43·0	30·0	36·8	1 below	3	− 4	45	− 3	41	+ 15	112	− 78
	4. MIDLAND COUNTIES	53	18	43·5	30·9	37·5	0 (average)	4	− 5	42	− 6	59	+ 26	98	− 90
	5. ENGLAND, SOUTH	52	22	45·3	35·6	40·6	1 above	9	0	26	−13	59	+ 20	69	− 85
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	17	45·3	34·0	39·9	1 above	9	− 1	32	− 1	55	+ 18	76	− 53
	7. ENGLAND, N.W.	53	25	44·7	34·3	39·7	0 (average)	8	0	30	− 5	62	+ 32	65	− 72
	8. ENGLAND, S.W.	54	23	47·0	37·1	42·3	1 above	23	+ 9	14	−14	89	+ 35	46	− 65
	9. IRELAND, NORTH	50	22	45·4	34·9	40·4	0 (average)	10	− 3	29	+ 1	79	+ 31	57	− 57
	10. IRELAND, SOUTH	54	22	47·9	35·5	42·0	0 (average)	17	− 2	18	− 4	113	+ 41	40	− 51
	—CHANNEL ISLANDS	53	34	48·5	42·5	45·6	2 above	25	+ 5	0	−13	125	+ 41	17	− 33

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 20.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	16	3 more	22	+ 1	5·3	− 0·1	5	− 1	10	− 2	16	− 4	8	− 2
	1. SCOTLAND EAST	3	2	5 less	16	+ 1	1·4	− 1·2	15	+ 5	28	−10	31	− 2	15	− 1
	2. ENGLAND, N.E.	2	1	4 less	14	− 1	1·3	− 0·5	17	+ 7	30	+13	30	− 5	14	− 2
	3 ENGLAND, EAST	3	5	1 more	15	− 1	1·5	− 0·3	15	+ 3	26	+ 5	28	− 15	13	− 6
	4. MIDLAND COUNTIES	3	3	2 less	13	− 2	1·1	− 1·1	12	+ 1	21	+ 2	24	− 16	11	− 7
	5. ENGLAND, SOUTH	3	4	3 less	12	− 3	1·0	− 1·5	12	0	19	0	24	− 20	10	− 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	8 less	17	− 1	2·7	− 2·4	9	0	16	0	25	− 7	12	− 3
	7. ENGLAND, N.W.	4	5	2 less	13	− 3	2·0	− 0·8	6	− 1	11	− 3	19	− 9	12	− 4
	8. ENGLAND, S.W.	4	7	2 less	14	− 3	1·7	− 1·3	12	− 1	19	− 2	33	− 16	14	− 7
	9. IRELAND, NORTH	4	4	4 less	17	− 2	2·4	− 0·9	16	+ 5	28	+ 8	28	− 12	13	− 6
	10. IRELAND, SOUTH	4	6	4 less	14	− 3	1·8	− 1·9	16	+ 3	27	+ 4	32	− 18	15	− 8
	—CHANNEL ISLANDS	5	4	4 less	17	− 2	1·4	− 1·7	9	− 7	14	−12	31	− 23	13	− 10

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was generally dry during the earlier half of the week, but very dull and gloomy over England; subsequently it became unsettled and rainy generally.

Temperature, as a whole, did not differ materially from the mean, but exceeded it very slightly in most districts; in the Channel Islands the excess was 2°. The highest of the maxima were recorded on the 25th, when they varied from 54° in England S.W. and Ireland S. to 48° in Scotland N. The lowest of the minima were registered either on the 20th or 23rd, and ranged from 17° in Scotland W. and 18° in Scotland E. and the Midland Counties to 25° in England N.W., and to 34° in the Channel Islands. The lowest reading on grass reported at any station using a terrestrial radiation thermometer was 15·5°, and occurred at Gilcrux (near Maryport) during the night of the 22nd—23rd.

Rainfall was rather more than the mean in Scotland N. and England E., but was less in all other parts of the Kingdom.

Bright Sunshine was more prevalent than has been the case for many weeks, and exceeded the mean in nearly all districts. The percentage of the possible duration ranged, nevertheless, from only 30 in England N.E., 28 in Scotland E. and Ireland N., and 27 in England S., to 11 in England N.W., and 10 in Scotland N.

Barometer and Wind.—During the greater part of the week the conditions over England were affected by an anticyclone which extended to our Islands from France and Germany, while depressions moved north-eastwards at some distance from our north-western and northern coasts. The winds were, consequently, South-Westerly in the west, and South-Westerly to North-Westerly in the north, and, in the latter region, occasionally reached the force of a gale. In the south and south-east, the winds were light and variable. Late on Friday a shallow disturbance advanced to Ireland and subsequently travelled south-eastwards across England, causing strong South-Westerly winds on our south-western and southern coasts and Easterly winds in the north.

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II.—DATA from which the SUMMARY on page 19 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	45	29	42·0	32·7	37·5	− 1·5	0	32	5	0·81	−0·04	*	*	*	*
	Stornoway	47	31	44·3	33·4	39·1	+ 0·5	6	33	5	1·23	+0·09	9·1	+ 1·3	18	+ 3
	Wick	45	30	42·4	32·9	37·8	− 0·1	1	33	6	0·49	−0·01	*	*	*	*
	Glencarron Ⓢ	46	28	43·5	34·2	39·0	+ 2·0	4	29	5	3·53	+1·29	*	*	*	*
	Fort Augustus Ⓢ	48	22	44·7	33·3	39·2	+ 1·1	8	34	5	1·72	+0·71	1·8	− 2·2	3	− 5
	Fort William Ⓢ	48	25	45·5	35·3	40·3	+ 1·4	10	27	5	1·91	−0·22	4·6	− 2·3	9	− 4
1. SCOTLAND, E.	Nairn	48	23	44·7	30·6	37·9	+ 0·7	8	44	5	0·26	−0·16	*	*	*	*
	Aberdeen	47	30	42·9	33·7	38·5	+ 1·0	3	31	2	0·12	−0·45	17·7	+ 4·8	33	+ 9
	Braemar Ⓢ	47	18	41·7	29·7	35·9	+ 1·6	0	43	3	0·32	−0·39	10·2†	+ 4·0†	19†	+ 7†
	Ochtertyre Ⓢ	49	20	43·4	27·7	35·9	− 0·5	4	53	3	0·32	−0·78	*	*	*	*
	Leith	50	22	45·9	31·4	38·9	+ 0·1	11	42	3	0·05	−0·41	*	*	*	*
	Marchmont Ⓢ	48	23	43·3	31·0	37·4	+ 1·2	4	41	3	0·13	−0·51	19·0	+ 9·0	35	+16
2. ENGLAND, N.E.	Alnwick Castle	50	21	43·9	30·9	37·7	− 0·5	5	42	2	0·08	−0·44	*	*	*	*
	Durham	48	20	42·5	30·1	36·6	− 0·2	1	44	3	0·15	−0·30	21·3	+10·3	38	+18
	Shields	48	25	44·3	31·6	38·2	− 0·3	6	40	2	0·06	−0·38	*	*	*	*
	Scarborough Ⓜ	47	28	41·1	33·4	37·4	− 0·9	0	32	2	0·08	−0·39	*	*	*	*
	York	51	25	44·6	30·6	37·9	0·0	7	44	3	0·08	−0·32				
	Spurn Head	45	30	42·0	35·4	38·9	+ 0·8	0	22	2	0·11	−0·27	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	50	20	42·5	28·5	35·8	− 1·4	1	50	3	0·76	+0·27	15·6	+ 3·8	27	+ 7
	Yarmouth	49	25	41·6	31·6	36·8	− 0·7	0	36	3	0·44	−0·04	*	*	*	*
	Geldeston	53	23	43·8	30·0	37·2	− 0·8	5	45	3	0·41	+0·01	14·5	+ 1·6	25	+ 3
	Cambridge	52	20	43·9	28·6	36·6	− 1·1	5	51	3	0·49	+0·11	15·1	+ 2·9	26	+ 5
	Rothamsted	51	26	43·3	31·1	37·4	+ 0·3	4	40	3	0·54	−0·05	16·2	+ 5·2	27	+ 8
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	25	44·6	31·4	38·3	+ 0·9	7	41	2	0·10	−0·36	*	*	*	*
	Loughborough	51	21	43·3	28·3	36·1	− 1·9	4	51	2	0·40	−0·08	*	*	*	*
	Stamford (Ketton Hall)	51	18	44·3	28·4	36·7	− 0·5	6	52	2	0·42	−0·05	*	*	*	*
	Cheadle Ⓜ	49	25	41·2	31·7	36·6	0·0	0	38	2	0·44	−0·24	*	*	*	*
	Solihull	50	27	41·8	31·9	37·1	− 0·3	0	34	3	0·64	?	*	*	*	*
	Churchstoke Ⓜ	52	19	42·4	30·6	36·7	− 1·3	1	42	3	0·24	−0·44	17·4	+ 6·2	30	+10
	Hereford Ⓜ	52	23	44·0	30·7	37·6	− 1·0	6	43	3	0·22	−0·39	*	*	*	*
	Cirencester	50	24	44·3	32·6	38·7	+ 1·1	6	36	2	0·29	−0·43	14·4	+ 2·4	24	+ 3
	Oxford	53	26	45·9	32·6	39·5	+ 1·2	11	37	4	0·31	−0·21	10·3	− 0·6	18	− 2
5. ENGLAND, S.	London	51	27	44·7	32·9	39·0	− 0·1	8	35	3	0·32	−0·18	5·0†	− 1·0†	8†	− 3†
	North Foreland	49	34	44·4	37·6	41·1	+ 2·0	7	18	2	0·27	?	*	*	*	*
	Strathfield Turgiss Ⓜ	52	22	45·2	31·9	38·8	+ 0·6	9	39	3	0·17	−0·41	*	*	*	*
	Dungeness	49	32	45·1	36·4	40·9	+ 1·6	9	23	2	0·26	−0·34	*	*	*	*
	Hastings (St. Leonards)	48	34	45·0	36·7	41·0	+ 1·7	8	22	4	0·59	−0·04	12·1	− 2·0	20	− 4
	Southampton	51	30	46·1	36·7	41·6	+ 1·5	11	23	3	0·67	−0·11	10·6	− 2·4	18	− 4
	Hurst Castle	50	32	46·4	37·9	42·3	+ 1·6	19	11	3	0·39	−0·29	*	*	*	*
	Stowell Ⓜ	51	29	45·1	34·6	40·1	+ 1·1	9	30	5	0·55	−0·23	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	28	47·7	35·2	41·7	+ 1·8	16	30	5	0·83	−1·12	*	*	*	*
	Glasgow	48	26	43·8	34·6	39·4	+ 0·7	5	29	2	0·19	−0·78	7·9	+ 1·7	14	+ 3
	Ardrossan	47	28	45·0	35·7	40·5	+ 0·6	8	25	4	0·20	−0·77	*	*	*	*
	Glenlee Ⓢ	49	17	43·3	28·9	36·4	− 1·0	4	49	4	0·55	−1·13	*	*	*	*
	Douglas (Isle of Man)	49	28	46·7	35·4	41·3	+ 1·0	13	28	3	0·67	−0·35	10·0	− 2·0	18	− 4
7. ENGLAND, N.W.	Stonyhurst	53	28	42·2	33·6	38·1	+ 0·3	1	31	4	1·04	+0·08	7·7	− 1·3	14	− 2
	Blackpool Ⓜ	50	25	44·9	31·9	38·7	+ 0·3	8	39	4	0·57	−0·13	4·6	− 4·4	8	− 8
	Manchester (Prestwich)	49	26	44·0	32·7	38·6	+ 0·4	6	36	4	0·40	−0·30	5·2	?	9	?
	Liverpool Obsy. (Bidston)	50	25	44·4	33·6	39·2	− 0·4	7	32	3	0·25	−0·27	*	*	*	*
	Llandudno Ⓜ	50	31	46·1	38·2	42·3	+ 1·0	18	11	3	0·45	−0·20	12·4	+ 1·6	21	+ 1
	Holyhead	49	31	46·6	35·6	41·3	− 0·8	13	27	4	0·54	−0·21	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	23	44·1	29·9	37·3	− 2·9	6	46	4	1·00	+0·30	*	*	*	*
	Pembroke	49	35	46·7	40·4	43·7	+ 1·8	19	4	4	0·57	−0·30	14·9	+ 1·9	25	+ 3
	Bristol (Montpelier)	53	28	46·7	35·7	41·4	+ 1·6	13	27	4	0·27	−0·53	*	*	*	*
	Arlington (N. Devon)	51	29	46·7	34·4	40·8	+ 0·7	13	32	3	1·06	+0·15	*	*	*	*
	Cullompton Ⓜ	54	28	46·8	33·5	40·4	+ 0·5	13	35	4	0·34	−0·26	11·7	+ 1·1	20	+ 2
	Falmouth	54	37	48·7	41·4	45·2	+ 1·8	25	2	5	0·58	−0·52	8·2	− 5·5	13	− 9
	Plymouth	51	35	47·7	40·9	44·4	+ 2·5	21	3	5	0·72	−0·18	10·4	− 2·2	17	− 3
	Prawle Point	53	39	48·3	40·9	44·8	+ 3·2	24	3	4	0·70	+0·05	*	*	*	*
9. IRELAND, N.	Malin Head	48	32	45·4	37·0	41·4	− 0·2	10	21	4	0·46	?	*	*	*	*
	Londonderry	48	32	45·5	34·4	40·2	0·0	10	31	3	0·27	−0·67	*	*	*	*
	Edenfel (Omagh)	48	28	44·0	33·3	38·9	+ 0·9	6	34	2	0·33	−0·49	*	*	*	*
	Belmullet	49	40	47·4	41·3	44·5	+ 1·4	29	2	4	0·66	−0·59	*	*	*	*
	Markree Castle	49	27	45·2	33·5	39·6	− 0·3	9	34	4	0·41	−0·39	13·7	+ 3·4	24	+ 5
	Brookeborough												*	*	*	*
	Armagh	49	25	45·1	33·3	39·6	+ 0·6	9	33	4	0·37	−0·22	20·8	+10·0	36	+16
	Donaghadee	50	28	45·9	33·9	40·1	− 0·4	11	32	5	0·33	−0·38	*	*	*	*
	Edgeworthstown	49	22	44·6	32·2	38·7	+ 0·3	7	38	3	0·54	−0·11	*	*	*	*
10. IRELAND, S.	Dublin	54	28	47·0	36·7	42·1	+ 0·4	23	15	4	0·13	−0·43	12·8	− 1·2	22	− 2
	Parsonstown	51	25	46·9	34·1	40·8	+ 0·8	14	33	4	0·38	−0·32	13·6	+ 1·3	23	+ 1
	Kilkenny	51	22	45·1	30·7	38·2	− 2·8	9	44	3	0·37	−0·43	*	*	*	*
	Roche's Point	54	33	49·3	39·3	44·5	+ 1·1	29	8	4	0·63	−0·59	*	*	*	*
	Valencia	52	30	50·0	37·9	44·2	− 0·7	33	11	4	1·09	−0·33	21·1	+ 7·9	36	+13
	Killarney	52	26	49·1	32·9	41·3	− 2·1	20	39	3	0·78	?	*	*	*	*
	Foynes	53	27	48·1	36·7	42·6	+ 1·1	26	15	3	0·59	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	43	50·4	45·0	47·8	+ 2·5	41	0	6	0·50	−0·35	10·3	?	17	?
	Jersey	52	34	46·6	40·0	43·4	+ 1·3	18	6	3	0·23	−0·52	8.3	− 8·7	13	−15

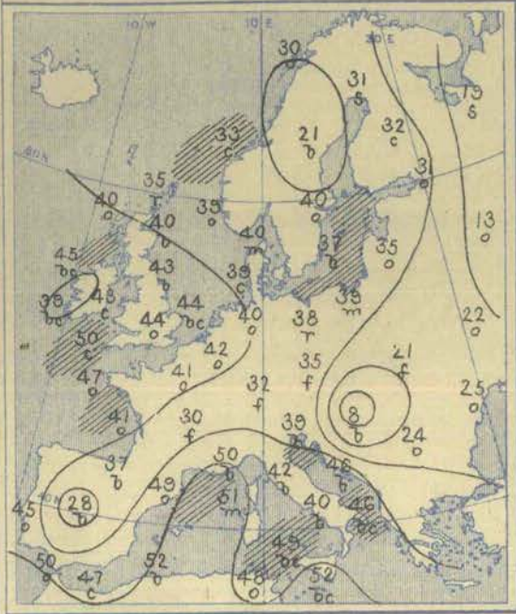
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

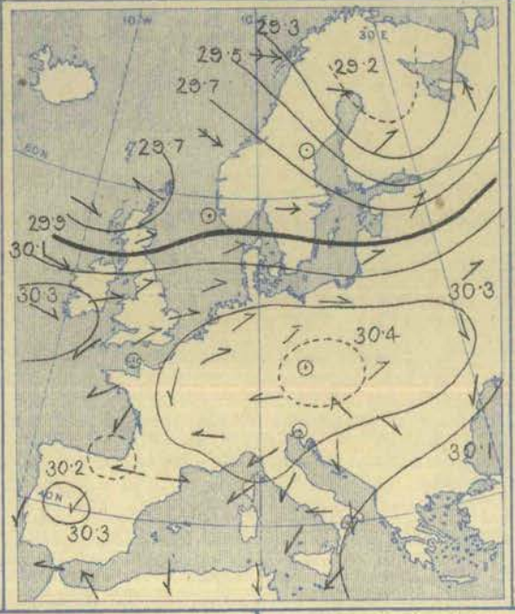
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 19th January.

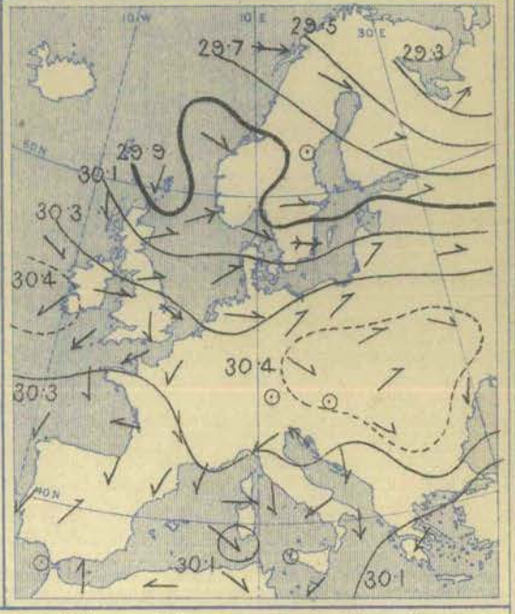
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern Europe, the Mediterranean, Spain, and the greater part of the United Kingdom, dull elsewhere, with snow over the north of Russia, rain at Helsingfors and Berlin, and fog at most of the stations in central Europe. Rain falling later over Scandinavia and the north of our Islands, snow at Warsaw, but weather fair over Ireland and England.

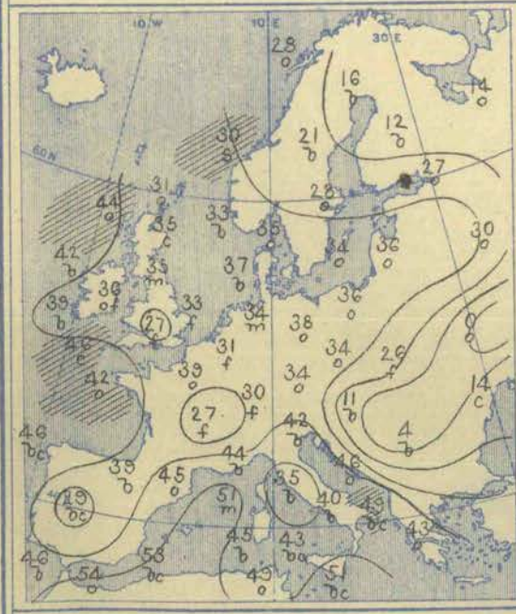
Temperature fallen decidedly over the northern parts of the United Kingdom, and in the south-east of France. Morning readings highest, 52° to 50° at many stations on the southern side of the Mediterranean, 50° at Scilly, 47° at Brest, and exceeding 40° over almost the whole of our Islands. Lowest, 6° Fahr. at Kharkov, 13° at Moscow, 19° at Archangel, and below the freezing point at the Russian stations generally. Rising later to between 45° and 52° over the greater part of our Islands and several parts of France, to 60° and more on the southern side of the Mediterranean, and to 65° at Oran.

Wind light and anticyclonic over central Europe and France, as well as over the south-western parts of the British Islands; Westerly and South-Westerly (cyclonic) over the northern parts of the United Kingdom, and blowing a gale at Malin Head (but Easterly at Sumburgh Head); Westerly strong to a gale over the greater part of northern Europe; Northerly to Easterly light to fresh over the Mediterranean; veering to West over our northern districts later; no decided change elsewhere.

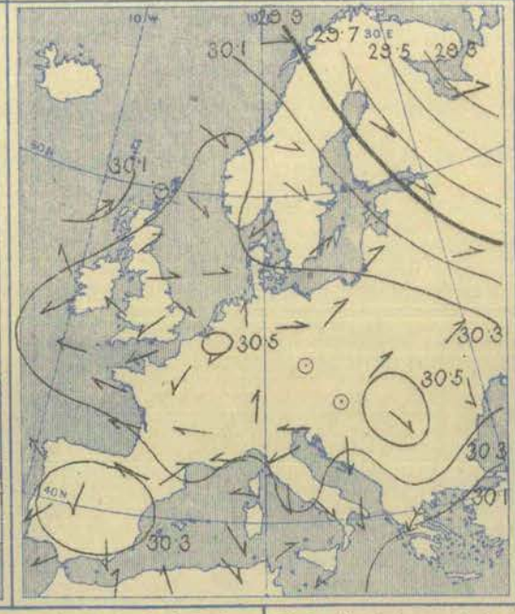
Barometer highest, 30·4 ins. and more over Austria-Hungary, and exceeding 30·0 ins. over all but the northern parts of Europe and the United Kingdom. Lowest, below 29·2 ins. over the northern parts of Finland, and below 29·7 ins. in a depression over the Shetlands and north of Scotland. Both low pressure systems moving eastwards later, and barometer rising rapidly in Scotland.

Monday, 20th January.

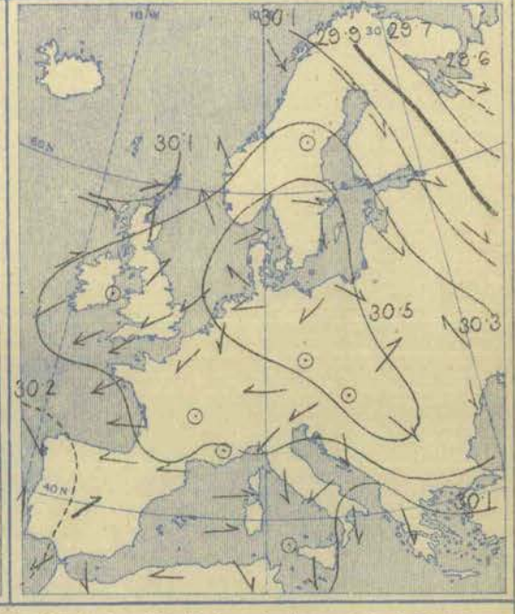
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, the Iberian Peninsula, Ireland, and the Irish Sea, also over Finland and the north of Sweden; dull and gloomy, but quiet elsewhere, with fog in many places. Rain falling later in considerable quantity in the extreme north of Scotland and the west of Norway (0·5 in. at Stornoway), and local falls at Pembroke, and at Munich; smaller quantities in Hungary.

Temperature fallen very decidedly over the British Islands and north-western Europe, as well as over northern and southern Russia and Hungary. Morning readings highest, 50° to 53° on the Algerian coast, and at Malta, 48° to 46° on the Portuguese coast, 46° at Scilly, 44° at Stornoway. Lowest, (1) zero Fahr. to 14° in the south of Russia, 12° to 20° Fahr. over Finland and the extreme north of Russia, 30° to 25° over central England, 30° at Parsonstown. Rising later to 66° at Cagliari, to 60° and more in the south of France, to 50° in the south of Ireland, and to 40° or more in all parts of our Islands.

Wind anticyclonic as a whole. South-Easterly and Southerly moderate over Ireland; Westerly to North-Westerly over Scandinavia and the north of Russia; Northerly to Easterly over southern and south-western Europe, and Easterly over the Bay of Biscay; variable airs and calms prevalent over south-eastern and central Europe, with the Netherlands and the greater part of England. No decided change later.

Barometer highest, 30·5 ins. and more over Austria-Hungary, and exceeding 30·3 ins. over all the south-eastern, central, and western parts of Europe. Lowest, (1) 29·3 ins. to 29·5 ins. over the north-east of Russia and the White Sea; (2) below 30·1 ins. over Greece; (3) below 30·2 ins. off the north-west coast of Spain, and also to the north-west of the Hebrides. Falling a little over the British Islands later—most in the north-west, rising over Finland and Sweden.

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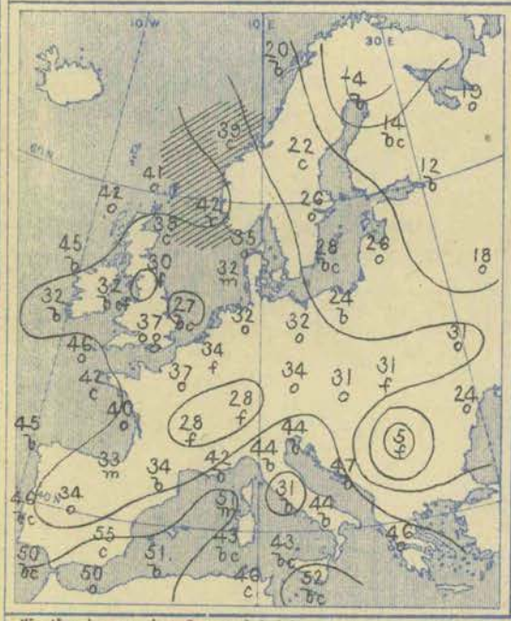
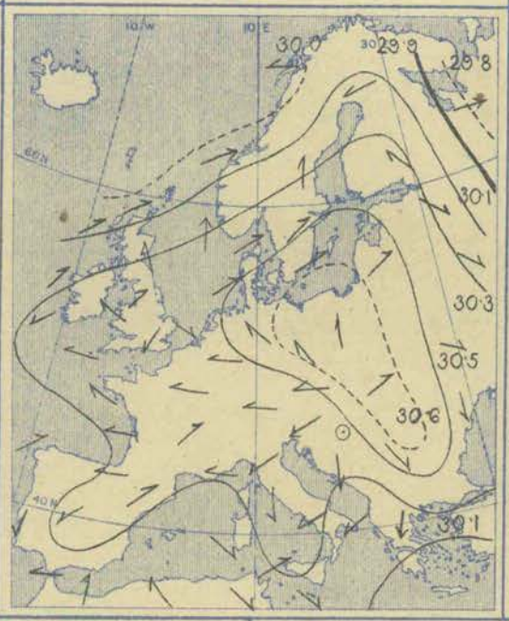
Tuesday, 21st January.

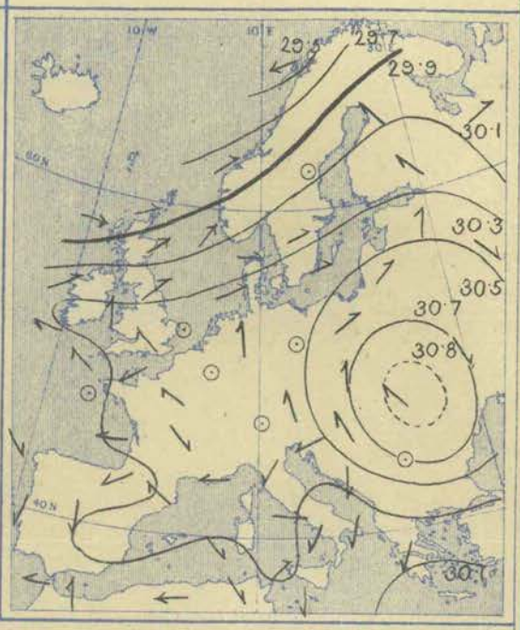
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright (1) over the Mediterranean and south of France, the Spanish Peninsula, and Ireland; (2) over Lapland, Finland, and many parts of Sweden; fair in Scotland, dull and gloomy elsewhere, with fog in many places, and misty rain on our south-west coasts. Snow was reported at Breslau. A moderate fall of rain and snow over Finland, Norway, and the northern parts of the British Islands later, and slight measurements reported from our south-western stations.

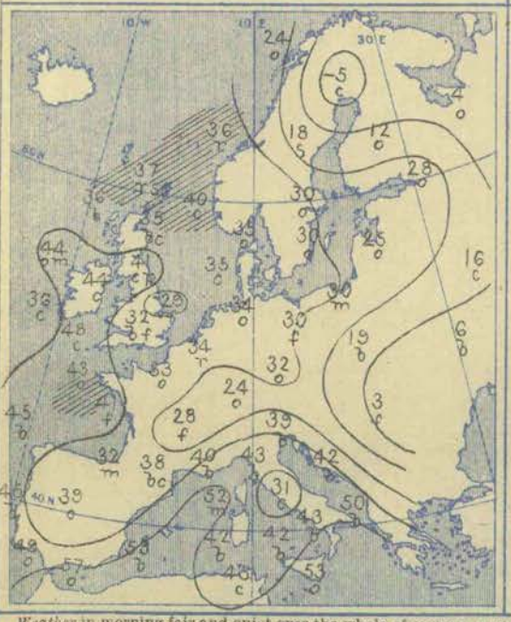
Temperature changing fitfully. Risen over Great Britain, fallen over Ireland, and also over the northern half of Russia, and north Germany. Morning readings, 50° and more on the southern side of the Mediterranean, 46° at Lisbon and Scilly, 45° at Belmullet, 42° at Prawle Point, Stornoway, and Skudesnaes. Lowest, −4° Fahr. at Ulealborg, +12° at St. Petersburg, 18° at Moscow, 19° at Archangel; below the freezing point over central Europe as a whole, and 28° to 30° over central Ireland and our own north Midland counties. Rising later to 66° at Cagliari, 63° at Algiers and Sanguinaire, to 50° at Scilly, and to upwards of 40° over our western and northern districts as a whole, but not touching 35° at Cambridge and Yarmouth.

Wind anticyclonic over the whole of eastern and central Europe, and very light in force; Northerly to Easterly over southern Europe; Easterly in the west; Southerly to South-Westerly on our north-western and northern coasts, and over Scandinavia, and blowing strongly at Christiansund and Skudesnaes; Westerly strong at Archangel. Increasing in force from between South and West in the north of Scotland later; little or no change in the south of the British Islands.

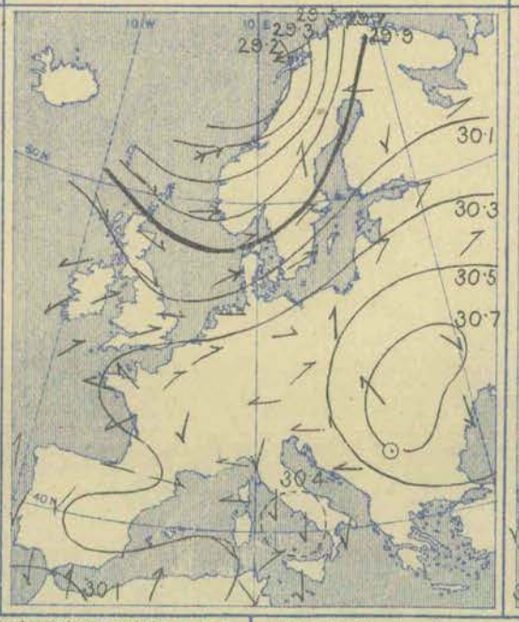
Barometer highest, 30·6 ins. and more over north Germany and Hungary, and exceeding 30·4 ins. over the whole of central Europe and the Baltic. Lowest, below 30·1 ins. (1) over the extreme north of Scotland, the Shetlands, and the north-west of Norway, and (2) over the Grecian Archipelago. Falling *fast* in Scotland and Norway later, as a large depression approached those regions from the westward.

Wednesday, 22nd January.

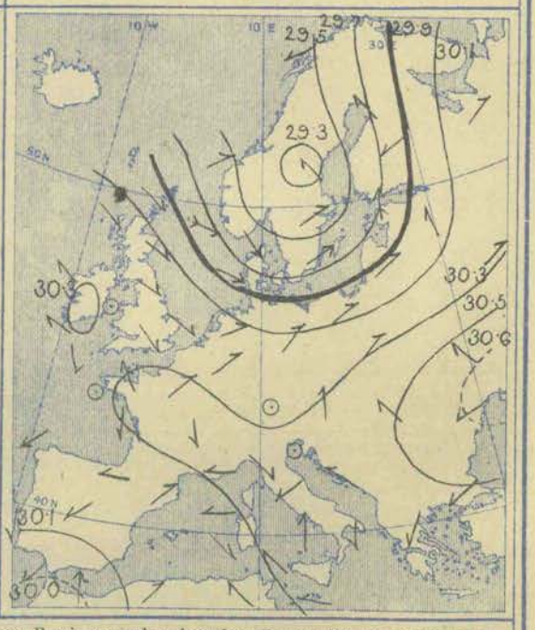
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and quiet over the whole of eastern, central, southern, and the greater part of western Europe—sky clear and bright in many places (especially in the south) gloomy and foggy in others, very unsettled over the northern countries, with rain and snow in the north-east of Scotland and many parts of Scandinavia. Considerable snow over Sweden later, some rain over Germany, the north of France, and also on our own north-western coasts. Solar halo at Oxford.

Temperature risen fast over Finland and several parts of our Islands, fallen fast over eastern, south-eastern, and central Europe. Morning readings exceeding 50° on the southern and western sides of the Mediterranean, 49° at San Fernando, 48° at Scilly, 44° at Holyhead and Belmullet. Lowest, (1) −5° Fahr. at Haparanda, +4° at Archangel, 12° at Kuopio, 16° at Moscow; (2) 3° at Hermanstadt, 6° at Kiev, 8° at Kharkov, 11° at Breslau, 22° at Munich, (3) 28° at Cambridge, 29° at Yarmouth and Loughborough. Rising later to upwards of 60° in the south of Italy and Algeria, to 51° at Prawle Point, 49° at Valencia, and to more than 40° in almost all parts of our Islands, also to 52° at Biarritz and Nice.

Wind (1) light and anticyclonic over Russia, central and southern Europe; light South-Westerly over England; Northerly to North-Easterly over Ireland; (2) cyclonic over the northern countries—North-Westerly fresh to a gale over the north-east of Scotland; Westerly and South-Westerly strong to a gale over the greater part of Norway, but East-North-Easterly a moderate gale at Bodö. The North-Westerly gale blowing hard at Skudesnaes later, but subsiding in Scotland.

Barometer highest, 30·7 ins. and more to 30·5 ins. over the south-eastern parts of Europe generally, and exceeding 30·2 ins. in all but the northern countries. Lowest, 29·2 ins. and less in a deep depression having its centre off the north-west of Norway, and below 30·2 ins. off the Portuguese coast; gradients very steep over Scandinavia. The depression moving eastwards later, and barometer rising rapidly at the Scotch and Norwegian stations.

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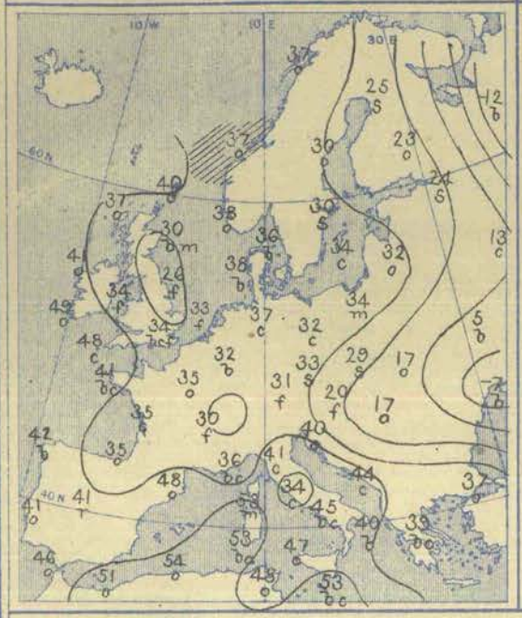
Thursday, 23rd January.

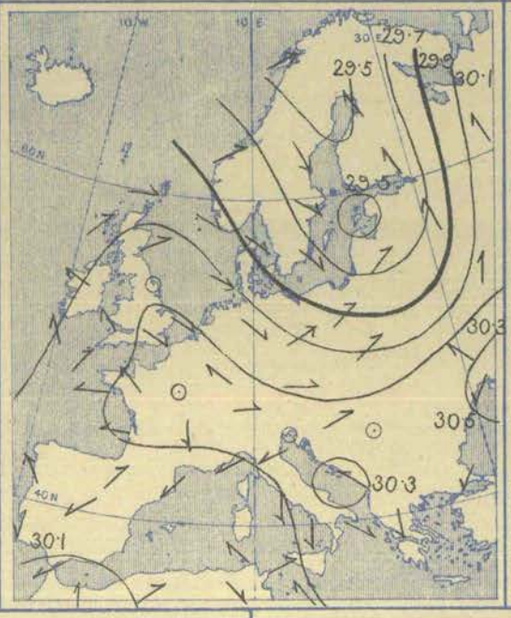
Temperature and Weather. 8 a.m.

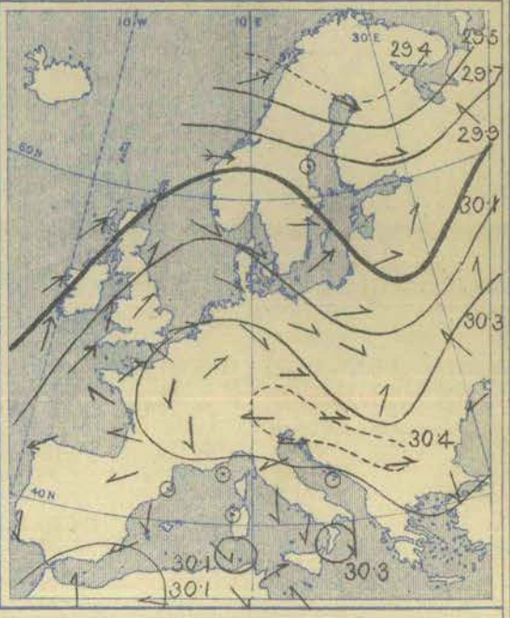


Weather in morning fine over south-eastern Europe, the Mediterranean, and on the shores of the Bay of Biscay, dull and foggy over France and England, very unsettled over northern Europe and the Baltic provinces, with snow or rain in many places. Rain falling later over the British Islands also, and small quantities in some parts of Russia and Germany. Weather becoming very unsettled over the United Kingdom.

Temperature fallen decidedly over Scotland, risen rapidly over Lapland and Finland, and somewhat over the Mediterranean. Morning readings highest, 54° at Algiers, 53° at Malta, 51° at Nemours, 49° at Valencia (Ireland), 48° at Scilly, 41° at Belmullet. Lowest, (1) – 12° Fahr. at Archangel, – 13° at Moscow, + 24° at St. Petersburg; (2) – 7° at Odessa, + 5° at Kiev, 17° at Kharkov and Lemberg, 29° at Breslau; (3) 22° at Cambridge and Loughborough, 23° at Leith, 26° at Shields and Nairn. Rising fast over the United Kingdom during the day, to above 45° in most places, and to 52° in the south of Ireland; exceeding 59° over southern Europe, and touching 60° to 63° on the Algerian coast.

Barometer and Wind. 8 a.m. 6 p.m.



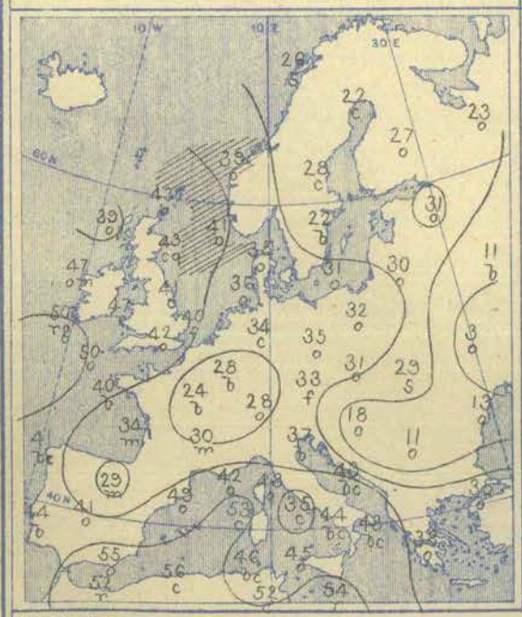


Wind light and anticyclonic over southern Europe, the northern parts of the Mediterranean, France, and the eastern half of England; South-Easterly moderate but cyclonic in the west of our Islands; South-Westerly in Norway; North-Westerly over Sweden; Westerly and South-Westerly over north Germany; South-Westerly to South-Easterly over the northern half of Russia. Becoming South-Westerly and Southerly over the British Islands later, and blowing strongly in the western districts.

Barometer highest, 30·5 ins. and more over the south of Russia, and exceeding 30·2 ins. over south Germany, the whole of France, and England. Lowest, below 29·5 ins. in a complex depression over Lapland and the western part of the Gulf of Finland, and below 30·1 ins. over the Hebrides and the west of Ireland. Rising briskly over northern Europe later, but falling briskly in the west of the British Islands.

Friday, 24th January.

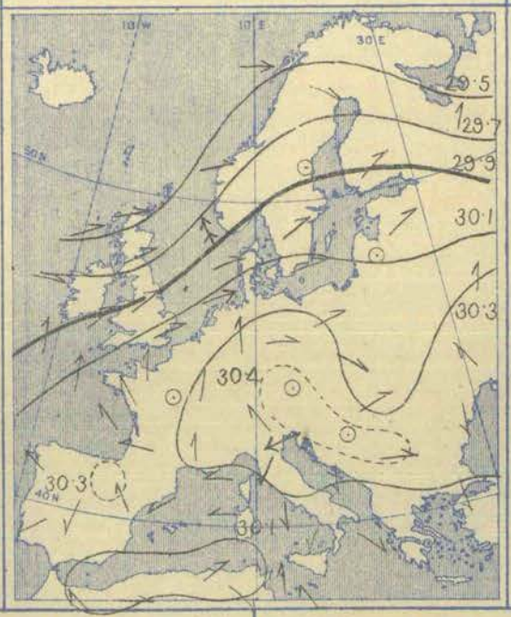
Temperature and Weather. 8 a.m.

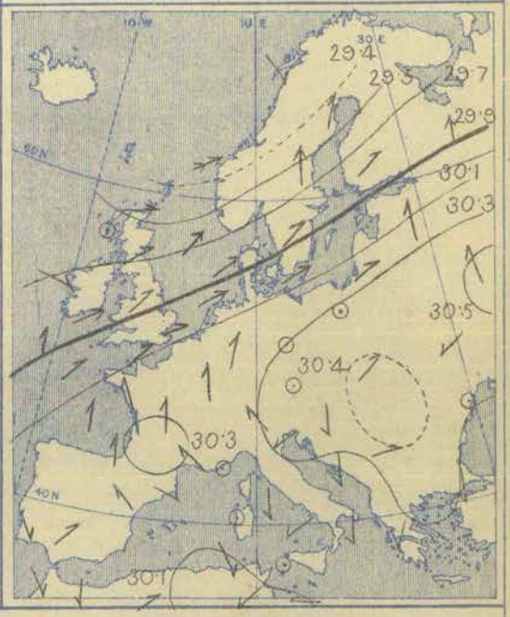


Weather in morning continuing fine over the Mediterranean, Spain, and France; fine and bright over the southern half of Russia, as well as over England; cloudy or overcast elsewhere, with rain on several parts of our coasts; snow at Bodö and at Cracow; fog at Prague and at Limoges; rain falling later in all parts of the British Isles, rather heavily on our south-west coasts; smaller quantities in Denmark, and a heavy fall over the western part of Algeria.

Temperature fallen over France, the Netherlands, Denmark, Sweden, and the Baltic, risen elsewhere, quickly over Great Britain. Morning readings highest, 56° at Algiers, 54° at Malta, and 52° at Oran and Sfax; (2) 50° at Valencia (Ireland), Roche's Point and Scilly; above 45° in the west of our Islands generally. Lowest, – 10° Fahr. at Kharkov, – 5° at Nicolaieff, + 3° at Keiv, and 11° at Moscow and Hermanstadt, below the freezing point in most parts of northern and central Europe. Rising during day to 50° and upwards at several of the western and southern stations in our Islands and France, and reaching 54° at Biarritz, 55° to 61° in the south of Italy, and 60° to 63° at the Algerian stations.

Barometer and Wind. 8 a.m. 6 p.m.



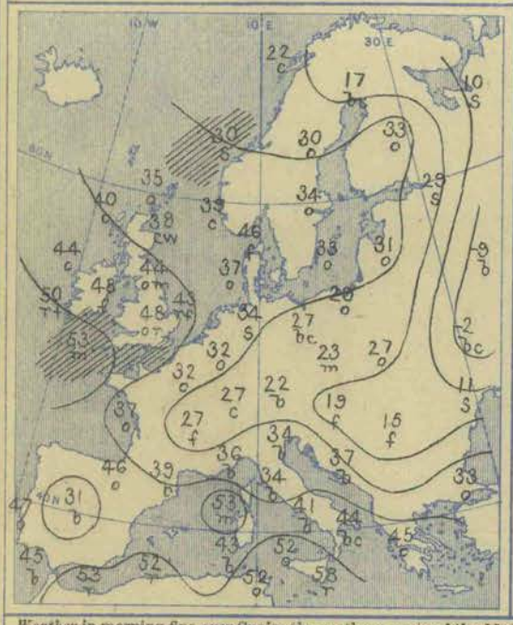


Wind Southerly or South-Westerly over our Islands, strong to a moderate gale in force over the Bristol and St. George's Channels. Light to moderate from the Westward or South-Westward over the northern parts of the Continent generally, but variable in the central and south-eastern countries. Varying between North and East over the greater part of southern Europe. Light to moderate from the South-Eastward in the west of France. Wind subsiding later on our western coast, but increasing greatly from South-West over northern Europe, and blowing a gale in several places.

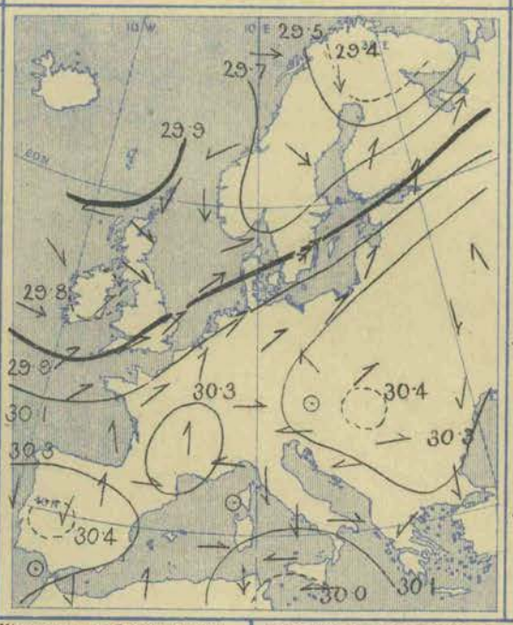
Barometer highest, 30·4 ins. and upwards over the south of Russia and also over Austria; 30·2 ins. and upwards in an anticyclone extending from Russia over the whole of central and south-western Europe. Lowest, 29·5 ins. and less in a large area lying to the northward of our Islands; no important change occurring during day. Rising in Scotland and the north of Ireland later, but falling at Valencia, and in Wales and the west of England.

Saturday, 25th January.

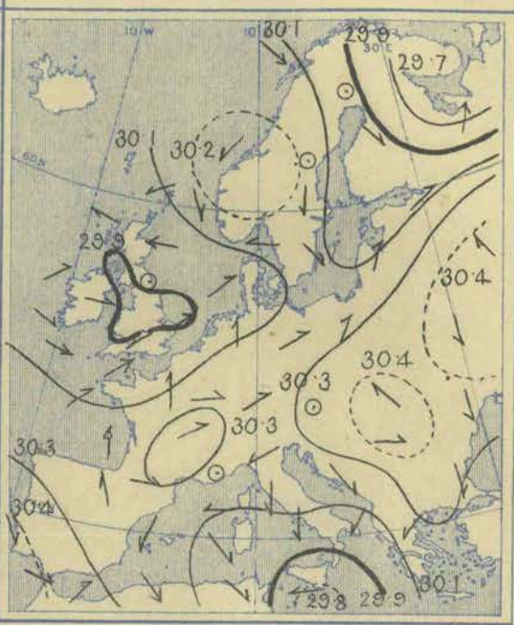
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Spain, the northern parts of the Mediterranean, and central parts of Russia, and quiet in all parts of central Europe, but dull or foggy locally. Very unsettled over northern Europe and the British Islands, with snow in places over the former regions, rain in the latter, and dull and rainy on the southern sides of the Mediterranean also. Rain falling later throughout our Islands, and the west and north of France—heaviest over the English Channel and neighbouring coasts; snow over northern Europe.

Temperature changed very variably—risen over England and the north of France. Morning readings highest, 53° at Scilly, 52° at Brest, 51° at Prawle Point, 50° in the south of Ireland, and much above 40° at all the Irish and English stations. Lowest, – 9° Fahr. at Moscow, – 2° at Kiev, + 6° to 12° in the south of Russia, 15° to 19° over Hungary, 22° at Munich, 27° at Berlin and Belfort, 32° at Paris. Rising later to between 54° and 59° over many parts of our Islands and the south-west of France, and to 57° at Lisbon.

Wind (1) light and anticyclonic over south-western, southern, central, and eastern Europe; (2) South-Westerly (cyclonic) and strong over the southern parts of our Islands, the Channel, North Sea, and Baltic; light and variable from the Eastward over Scotland and at Christiansund; (3) moderate to fresh from between East and North (cyclonic) over the southern parts of the Mediterranean. The Easterly wind freshening over Ireland and Scotland later; the South-Westerly wind at our southern stations falling light.

Barometer highest, 30·4 ins. and more to 30·1 ins. in a very complex high-pressure system, covering all the southern and central countries of Europe. Lowest, (1) below 29·4 ins. in a depression over the east of Lapland; (2) below 29·8 ins. in another (shallow one) over Ireland and the Irish Sea; and (3) below 30·0 ins. in another over Tunis. Irish depression moving Eastwards to England later, and undergoing great modifications in form.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows :—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During nearly the whole of this week pressure was highest over the western and central parts of Continental Europe, lowest over the north-western and northern countries—in which latter regions depressions were observed moving from the westward. On Friday, however, the high pressure area took up a more easterly position, and the depression which reached our western coasts on the evening of that day was shallow, and advanced directly over the United Kingdom, and finally dispersed off western Germany. Temperature has varied considerably, and has been very low over northern and eastern Europe, but, as a whole, higher in the west than is usual at this time of year. Fog, though prevalent on many occasions, has been slight, and until the latter part of the week the rainfall was trifling, and confined mainly to the north-western and northern parts of our area.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	13·3	+ 4·6	24	+ 8	EASTBOURNE	11·2	- 1·8	19	- 2
OSWALDKIRK (Yorkshire)	12·0	+ 2·1	21	+ 4	MANCHESTER (Oldham Road)	2·2*	?	4*	?
WORKSOP	7·6	- 1·9	13	- 3	TENBY	14·7	+ 0·7	25	+ 1
THURCASTON (Leicestershire)	11·3	+ 1·5	19	+ 2	NEWQUAY	12·8	- 0·4	21	0
MARGATE	15·5	+ 4·3	26	+ 8	TORQUAY	9·3*	- 4·7	15*	- 8
WESTBOURNE (Sussex)	13·1*	+ 0·1	22*	0	ARLEY COTTAGE (County Cavan)	14·4	+ 2·7	25	+ 5
BRIGHTON	13·4	+ 1·4	22	+ 1	GUERNSEY	7·8*	- 4·6	13*	- 8

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 5.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 1ST, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 26.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	30	47·0	37·8	42·6	4 above	22	+15	12	−20	49	+ 18	118	95
	1. SCOTLAND, EAST	56	28	47·3	35·3	41·6	5 above	15	+ 7	29	−16	37	+ 7	163	− 60
	2. ENGLAND, N.E.	54	25	46·3	36·3	41·6	3 above	12	+ 5	24	−16	47	+ 16	122	− 82
	3. ENGLAND, EAST	49	26	43·8	33·7	38·9	1 above	5	− 3	31	−15	46	+ 12	143	− 93
	4. MIDLAND COUNTIES	53	25	45·3	35·6	40·7	2 above	9	− 1	26	−20	68	+ 25	124	−110
	5. ENGLAND, SOUTH	51	25	45·4	35·6	40·7	1 above	10	0	26	−11	69	+ 20	95	− 95
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	34	46·2	39·3	42·9	4 above	18	+ 8	3	−24	73	+ 26	84	− 77
	7. ENGLAND, N.W.	56	35	46·3	39·6	43·1	3 above	18	+10	7	−27	80	+ 42	72	− 92
	8. ENGLAND, S.W.	55	24	47·0	36·7	42·0	1 above	14	− 1	15	−12	103	+ 34	61	− 77
	9. IRELAND, NORTH	54	28	47·0	36·9	42·2	2 above	23	+10	14	−13	102	+ 41	71	− 70
	10. IRELAND, SOUTH	56	28	48·3	38·5	43·6	1 above	26	+ 6	10	−11	139	+ 47	50	− 6
	—CHANNEL ISLANDS	54	34	48·7	41·3	45·1	1 above	25	+ 5	2	−11	150	+ 46	19	− 44

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 26.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	14	1 more	27	0	6·7	0·0	4	− 4	8	− 6	20	− 8	8	− 3
	1. SCOTLAND EAST	3	4	3 less	19	− 1	1·8	− 1·4	19	+ 8	33	+13	50	+ 6	19	+ 2
	2. ENGLAND, N.E.	2	1	3 less	16	− 3	1·4	− 0·9	24	+13	40	+21	51*	+ 5	19	+ 2
	3 ENGLAND, EAST	2	1	4 less	17	− 3	1·6	− 0·7	16	+ 3	27	+ 6	44	− 13	16	− 4
	4. MIDLAND COUNTIES	2	1	5 less	15	− 4	1·2	− 1·6	16	+ 4	27	+ 7	40	− 12	15	− 3
	5. ENGLAND, SOUTH	2	2	5 less	14	− 5	1·2	− 1·9	15	+ 2	27	+ 4	39	− 18	14	− 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	8	4 less	21	− 2	3·5	− 2·8	10	0	17	0	35	− 8	13	− 3
	7. ENGLAND, N.W.	3	2	5 less	16	− 5	2·2	− 1·3	7	+ 1	11	+ 1	26	− 8	14	− 3
	8. ENGLAND, S.W.	2	2	7 less	16	− 6	1·9	− 2·5	20	+ 5	32	+ 9	53	− 10	18	− 4
	9. IRELAND, NORTH	4	5	3 less	21	− 3	2·9	− 1·3	12	0	20	0	40	− 12½	15	− 4
	10. IRELAND, SOUTH	3	5	5 less	17	− 5	2·3	− 2·3	11	− 3	18	− 5	43	− 21	15	− 8
	—CHANNEL ISLANDS	2	2	6 less	19	− 5	1·6	− 2·3	23	+ 3	36	+ 4	54	− 21	17	− 7

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was fair and dry over the Kingdom generally until the latter part of the period, when the conditions became very dull and gloomy. Local fogs and mists, however, prevailed at times in different parts of the country, while in the extreme north and north-west, rain was not infrequent.

Temperature was above the mean in all districts, the excess ranging from 1° over the east, south, and south-west of England, to as much as 4° to 5° in Scotland. The highest of the maxima were recorded during the early days of the week, when they ranged from 56° in Scotland E., England S.W., and Ireland S., to 49° in England E. The lowest of the minima occurred during the latter half of the period, and ranged from 24° in England S.W., and 25° in England S., the Midland counties, and England N.E., to 33° in Scotland W., 34° in the Channel Islands, and 35° in England N.W.

Rainfall was a little in excess of the mean in Scotland N., but deficient in all other districts; over England the fall was very slight.

Bright Sunshine was less than the normal in Ireland S. and Scotland N., and just equalled it in Scotland W. and Ireland N.; in all other districts, however, there was an excess, that in the north-eastern parts of Great Britain being large. The percentage of the possible duration ranged from 40 in England N.E., to 33 in Scotland E., 11 in England N.W., and 8 in Scotland N.

Barometer and Wind.—Soon after the commencement of the period a rather deep disturbance skirted our north-western coasts, causing Southerly winds over the Kingdom generally; these blew strongly in the west, and with the force of a gale in the north of Scotland. By Wednesday morning the conditions had undergone a great change, the barometer having risen very quickly and an anticyclone, with readings of 30·8 ins. and upwards, having appeared over our south-western districts. This system continued to increase in intensity, and reached its maximum (30·96 ins. at Roche's Point) at 11 p.m. on the 29th. During the latter part of the week the anticyclone gave way gradually, but did not materially change its position. Westerly winds were experienced at all our more northern stations during the prevalence of this high pressure system, variable airs in the south-east, and light North-Easterly breezes in the south-west.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 25 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	33	46·3	38·6	42·6	+ 3·8	18	10	7	1·20	+0·37	*	*	*	*
	Stornoway	51	30	48·0	38·7	43·5	+ 4·7	24	9	4	0·84	−0·25	6·2	− 3·8	11	− 6
	Wick	50	34	47·0	37·1	42·3	+ 4·4	23	14	3	0·17	−0·33	*	*	*	*
	Glencarron §	55	30	46·5	35·6	41·3	+ 4·3	13	27	6	1·66	−0·51	*	*	*	*
	Fort Augustus §	52	33	46·9	37·4	42·3	+ 4·1	21	13	4	1·77	+0·79	3·7	− 1·5	7	− 3
	Fort William §	55	36	47·3	39·2	43·4	+ 4·2	22	8	6	2·55	+0·46	3·1	− 5·6	6	−10
1. SCOTLAND, E.	Nairn	56	31	49·4	35·4	42·7	+ 5·3	33	18	2	0·15	−0·24	*	*	*	*
	Aberdeen	52	30	47·3	34·7	41·3	+ 3·6	15	31	3	0·08	−0·52	23·5	+ 9·3	42	+17
	Braemar §	47	28	42·9	33·7	38·5	+ 4·1	3	21	3	0·69	−0·03	15·2†	+ 5·7†	27†	+11†
	Ochtertyre §	51	32	48·0	35·7	42·1	+ 5·5	27	18	3	0·67	−0·12	*	*	*	*
	Leith §	54	36	49·4	37·9	43·9	+ 4·7	31	11	2	0·22	−0·25	*	*	*	*
	Marchmont §	51	32	46·6	34·6	40·8	+ 4·1	13	31	2	0·26	−0·40	18·5	+ 6·8	32	+11
2. ENGLAND, N.E.	Alnwick Castle	52	32	46·4	36·1	41·5	+ 3·3	12	25	2	0·17	−0·34	*	*	*	*
	Durham	51	30	47·3	35·4	41·6	+ 4·1	15	29	1	0·10	−0·35	24·0	+11·5	41	+19
	Shields	51	35	47·1	37·7	42·6	+ 3·5	22	12	1	0·29	−0·16	*	*	*	*
	Scarborough §	49	33	45·7	36·7	41·4	+ 2·6	10	23	2	0·06	−0·43	*	*	*	*
	York	54	25	48·3	33·9	41·4	+ 2·8	18	35	2	0·10	−0·32	19·1	+ 9·1	32	+16
	Spurn Head	46	36	42·9	38·0	40·6	+ 1·8	3	16	1	0·06	−0·32	*	*	*	*
3. ENGLAND, E.	Hillington §	49	26	43·7	31·4	37·8	− 0·2	5	40	1	0·23	−0·29	16·3	+ 2·9	27	+ 5
	Yarmouth	43	30	41·7	33·7	37·9	+ 0·1	0	29	2	0·09	−0·41	*	*	*	*
	Geldeston	49	28	44·4	32·2	38·5	− 0·1	7	37	3	0·09	−0·33	16·0	+ 1·9	31	+ 5
	Cambridge	49	29	45·6	35·1	40·6	+ 2·4	10	28	1	0·06	−0·34	18·5	+ 4·8	30	+ 8
	Rothamsted	48	30	43·5	36·0	39·9	+ 2·5	4	23	3	0·15	−0·44	14·4	+ 1·9	24	+ 4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	31	46·0	35·7	41·1	+ 3·0	11	27	2	0·08	−0·38	*	*	*	*
	Loughborough	49	28	46·0	35·0	40·7	+ 1·9	11	29	2	0·12	−0·38	*	*	*	*
	Stamford (Ketton Hall)	50	28	46·4	33·7	40·3	+ 2·3	12	34	4	0·20	−0·30	*	*	*	*
	Cheadle §	49	32	44·7	36·1	40·6	+ 3·4	8	24	2	0·16	−0·52	*	*	*	*
	Solihull	49	31	43·0	36·8	40·0	+ 2·3	3	20	2	0·16	?	*	*	*	*
	Churchstoke §	53	29	47·2	34·8	41·3	+ 2·9	15	31	2	0·14	−0·54	20·4	+ 7·7	34	+13
	Hereford §	62	30	45·7	36·2	41·1	+ 1·9	10	24	1	0·05	−0·57	*	*	*	*
	Cirencester	51	25	44·0	35·6	40·0	+ 2·0	6	25	2	0·21	−0·54	13·4	+ 0·1	22	0
	Oxford	50	28	45·0	36·4	40·9	+ 1·9	8	23	1	0·09	−0·45	13·8	+ 1·3	23	+ 2
5. ENGLAND, S.	London	49	30	44·7	37·0	41·0	+ 1·3	8	20	2	0·13	−0·39	6·1†	− 0·7†	10†	− 2†
	North Foreland	47	33	44·7	37·1	41·1	+ 1·8	8	20	4	0·13	?	*	*	*	*
	Strathfield Turgiss §	50	26	45·9	24·7	40·5	+ 1·6	11	30	1	0·07	−0·51	*	*	*	*
	Dungeness	48	26	44·9	34·1	39·7	− 0·1	8	31	3	0·11	−0·53	*	*	*	*
	Hastings (St. Leonards)	50	30	46·8	34·9	41·1	+ 1·5	13	30	3	0·21	−0·42	20·9	+ 5·3	34	+ 9
	Southampton	50	29	45·9	35·8	41·1	+ 0·6	11	26	1	0·17	−0·60	15·1	+ 0·4	24	+ 1
	Hurst Castle	51	30	46·3	37·1	41·9	+ 1·0	12	22	1	0·16	−0·52	*	*	*	*
	Stowell §	51	25	43·7	34·0	39·0	− 0·4	5	30	2	0·24	−0·54	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	51	35	45·9	39·0	42·6	+ 3·7	17	8	4	0·69	−0·25	6·6	− 0·8	12	0
	Ardrossan	49	39	46·6	40·6	43·7	+ 3·6	18	4	6	0·73	−0·27	*	*	*	*
	Glenlee §	49	33	46·0	38·1	42·2	+ 4·4	18	11	4	1·13	−0·44	*	*	*	*
	Douglas (Isle of Man)	49	35	46·1	39·4	42·9	+ 2·3	17	7	3	0·59	−0·42	12·5	− 0·8	21	− 2
7. ENGLAND, N.W.	Stonyhurst	50	35	45·1	38·8	42·1	+ 3·7	14	9	3	0·24	−0·73	7·7	− 2·6	13	− 4
	Blackpool §															
	Manchester (Prestwich)	51	35	46·4	38·7	42·7	+ 4·1	19	9	3	0·23	−0·47	2·0	?	3	?
	Liverpool Obsy. (Bidston)	54	38	46·0	39·9	43·1	+ 3·5	17	6	3	0·25	−0·27	*	*	*	*
	Llandudno §	56	36	47·5	40·9	44·3	+ 2·7	21	3	2	0·18	−0·47	15·8	+ 3·8	26	+ 5
	Holyhead	50	38	46·4	39·6	43·1	+ 0·8	18	7	3	0·29	−0·45	*	*	*	*
8. ENGLAND, S.W.	Llandovery	54	26	46·1	32·3	39·5	− 0·9	11	39	2	0·26	−0·93	*	*	*	*
	Pembroke	50	37	46·9	41·1	44·1	+ 2·0	18	3	2	0·18	−0·57	17·3	+ 2·8	28	+ 4
	Bristol (Montpelier)	53	31	46·3	37·1	41·9	+ 1·7	12	22	1	0·12	−0·69	*	*	*	*
	Arlington (N. Devon)	53	24	46·3	32·1	39·5	− 0·8	12	40	1	0·05	−0·84	*	*	*	*
	Cullompton §	55	25	46·7	34·0	40·6	+ 0·4	13	33	3	0·17	−0·43	20·1	+ 7·8	32	+13
	Falmouth	54	37	47·9	40·8	44·5	+ 0·8	23	3	2	0·18	−0·85	21·3	+ 6·5	35	+12
	Plymouth	53	31	47·4	37·9	42·8	+ 0·3	23	11	3	0·22	−0·66	17·8	+ 3·6	28	+ 5
	Prawle Point	52	35	48·1	38·4	43·4	+ 1·3	25	10	2	0·20	−0·42	*	*	*	*
9. IRELAND, N.	Malin Head	52	35	46·9	39·6	43·4	+ 1·4	20	7	6	0·43	?	*	*	*	*
	Londonderry	54	34	47·5	36·9	42·4	+ 1·7	24	14	5	0·60	−0·32	*	*	*	*
	Edenfel (Omagh)	52	31	44·0	35·7	41·1	+ 2·7	11	27	3	0·59	−0·21	*	*	*	*
	Belmullet	52	38	48·1	40·9	44·6	+ 1·3	23	3	4	0·71	−0·52	*	*	*	*
	Markree Castle	53	28	48·1	34·4	41·5	+ 1·3	17	33	5	0·39	−0·33	14·5	+ 2·7	25	+ 4
	Brookeborough												*	*	*	*
	Armagh	53	34	46·3	36·4	41·6	+ 2·0	12	24	3	0·39	−0·13	10·1	− 1·9	17	− 3
	Donaghadee	50	33	46·7	37·0	42·0	+ 1·1	13	14	5	0·34	−0·38	*	*	*	*
	Edgeworthstown	52	31	46·7	34·5	40·8	+ 2·1	13	33	4	0·44	−0·29	*	*	*	*
10. IRELAND, S.	Dublin	56	36	48·0	38·4	43·4	+ 1·2	25	10	3	0·26	−0·32	13·3	− 1·3	22	− 2
	Parsonstown	53	33	47·7	36·4	42·3	− 1·7	26	16	3	0·36	−0·34	10·7	− 2·9	18	− 4
	Kilkenny	52	28	46·3	34·4	40·6	+ 0·8	12	31	3	0·25	−0·55	*	*	*	*
	Roche's Point	51	35	48·9	40·4	44·3	+ 1·2	26	4	3	0·60	−0·60	*	*	*	*
	Valencia	53	37	49·9	41·9	46·1	+ 1·1	29	0	4	0·82	−0·55	9·3	− 4·9	15	− 8
	Killarney	54	33	48·9	37·5	43·4	− 0·3	29	13	3	0·61	?	*	*	*	*
	Foynes	54	38	48·1	40·3	44·4	+ 2·7	24	5	4	0·49	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	50·3	43·1	46·8	+ 1·4	34	0	2	0·20	−0·64	28·8	?	46	?
	Jersey	52	34	47·1	39·4	43·4	+ 1·0	21	7	2	0·26	−0·48	16·6	− 2·2	26	− 3

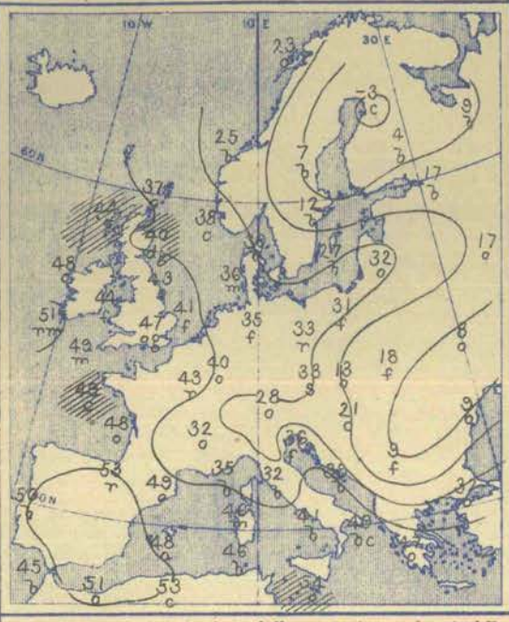
Stations marked § are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 26th January.

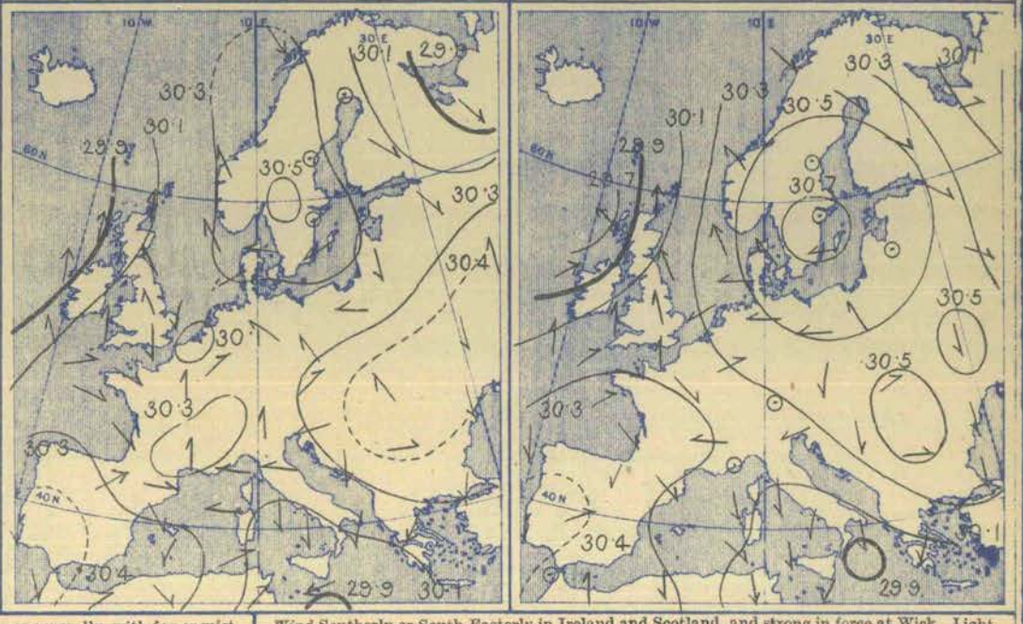
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over western and central Europe generally, with fog or mist in many places, and with rain in the south of Ireland, as well as at several of the French and German stations; snow falling at Prague. Fine over Scandinavia and northern Russia, as well as over southern Europe generally, but cloudy in Greece, with rain at Athens. Rain falling later in nearly all parts of our Islands, and snow at Moscow.

Temperature risen in France, Spain, and Germany, as well as at some of the Russian stations, but fallen elsewhere. Morning readings highest, (1) 54° at Malta, 53° at Algiers, and 51° at Oran; (2) 53° at Biarritz, 51° at Valencia (Ireland), and 50° at Jersey and Lisbon. Lowest, – 5° at Kharkov, – 3° at Uleaborg, + 4° at Kuopio, 5° at Haparanda, and 7° at Hernösand; considerably below the freezing point over Scandinavia, Russia, and Austria generally, and slightly below it over northern and central Europe. Rising during day to 50° and upwards at several of our own western and northern stations; exceeding 55° over Spain and the southern parts of France and Italy, and reaching 64° at Oporto.

Barometer and Wind. 8 a.m. and 6 p.m.

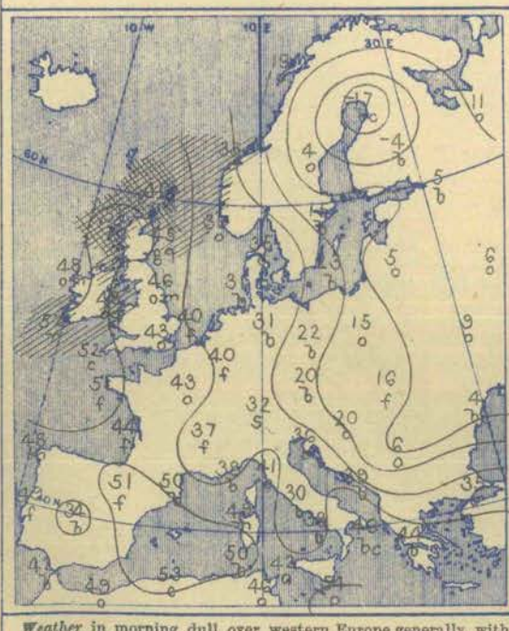


Wind Southerly or South-Easterly in Ireland and Scotland, and strong in force at Wick. Light from the Northward over the eastern and central parts of England, and from the North-Westward or Westward over the western parts of the Channel and France; Southerly over central France and south Germany; South-Easterly or Easterly on the eastern shores of the North Sea. Calm in Sweden; North-Westerly over northern Russia; variable over Austria and the south of Russia; Northerly in Spain and Italy. Subsequently increasing to a gale from the South-Eastward in the north of Scotland; backing to the South-Westward over England and the north-west of France.

Barometer highest, 30·5 ins. and upwards over central Scandinavia; 30·4 ins. and upwards over Spain, and also over Austria and the south of Russia; 30·2 ins. and upwards over the greater part of the Continent. Lowest, 29·9 ins. and less in a depression lying to the westward of our Islands, and also in a small system over the Mediterranean to the southward of Malta. Depression in west subsequently spreading north-eastwards; barometer falling rather decidedly on our extreme northern coasts.

Monday, 27th January.

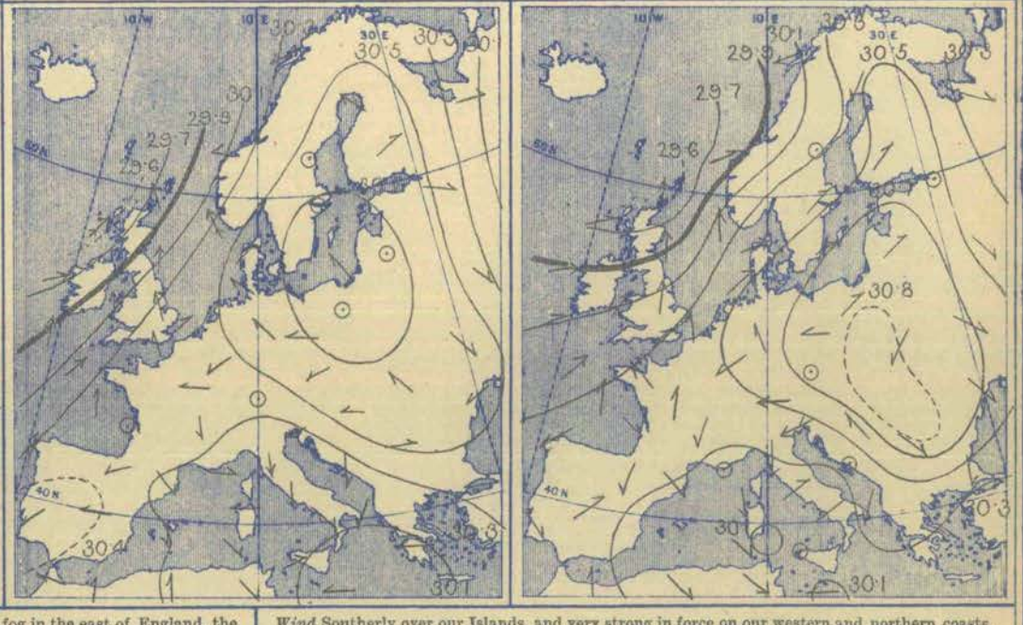
Temperature and Weather. 8 a.m.



Weather in morning dull over western Europe generally, with fog in the east of England, the Netherlands, and many parts of France and Spain, and with rain in the south of Ireland, and the west and north of Scotland. Fine over Sweden, Finland, and north Germany, as well as in Italy and the south of Russia; dull over Austria and south Germany, with snow at Munich. Rain falling later over the whole of our Islands. Thunder and lightning occurring at Stornoway at night and bright aurora at Wick.

Temperature risen in our Islands and Norway, but fallen in most other countries. Morning readings highest, (1) 54° at Malta, and 53° at Palma and Algiers; (2) 53° at Nairn and Parsonstown, slightly above 50° at several of our own western and northern stations. Lowest, – 17° Fahr. at Haparanda, – 11° at Uleaborg and Kharkov, – 10° at Nicolaieff, and – 4° at Kuopio; considerably below the freezing point over Sweden, eastern Germany, and Austria. Rising during day to 50° and upwards in many parts of the United Kingdom, and reaching 56° at Nairn; sharp fall taking place, however, towards night, and ground frost experienced over central England.

Barometer and Wind. 8 a.m. and 6 p.m.

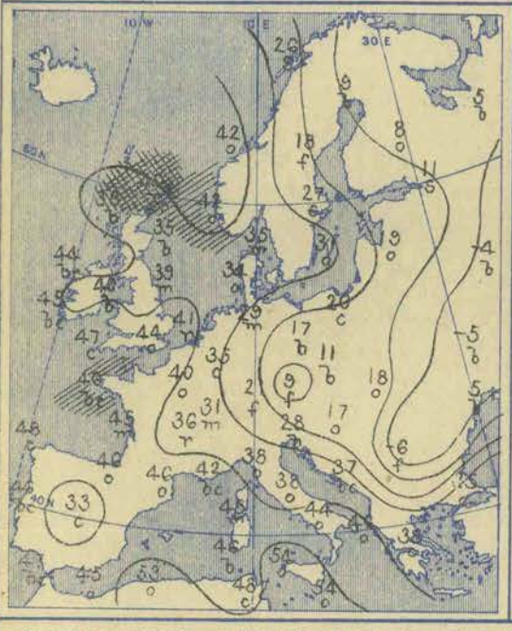


Wind Southerly over our Islands, and very strong in force on our western and northern coasts, with a gale at Stornoway; South-Easterly on the eastern shores of the North Sea, with a whole gale at Skudesnaes. Calm in Sweden; light from the North-Westward in Russia; Easterly over Austria, Germany, central France, and the greater part of Spain; Northerly in Italy. Subsequently veering to the South-Westward or Westward on our western coasts, and moderating in force. Increasing from the South-Westward on eastern shores of North Sea.

Barometer highest, 30·7 ins. and upwards over Poland, eastern Germany, and the Baltic; 30·3 ins. and upwards in an anticyclone covering the greater part of the Continent, and also the south-eastern parts of England. Lowest, 29·6 ins. and less in a rather deep depression lying off the north-west of Scotland; 30·1 ins. and upwards in two shallow systems—one lying over Sardinia, and the other to the southward of Italy. Scotch disturbance subsequently moving north-eastwards, and barometer rising on all our western coasts.

Tuesday, 28th January.

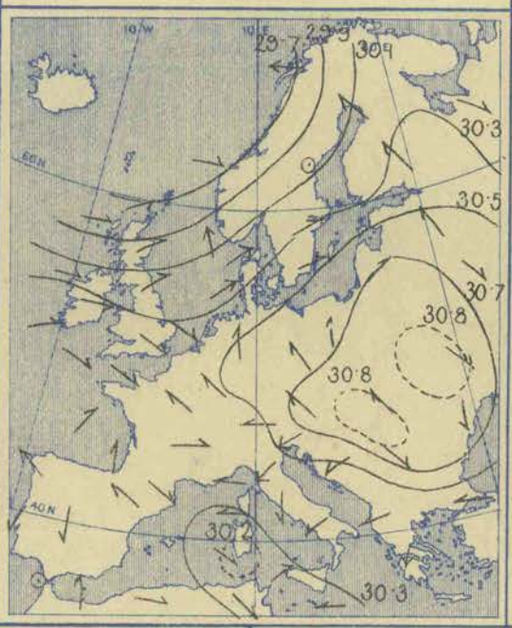
Temperature and Weather. 8 a.m.

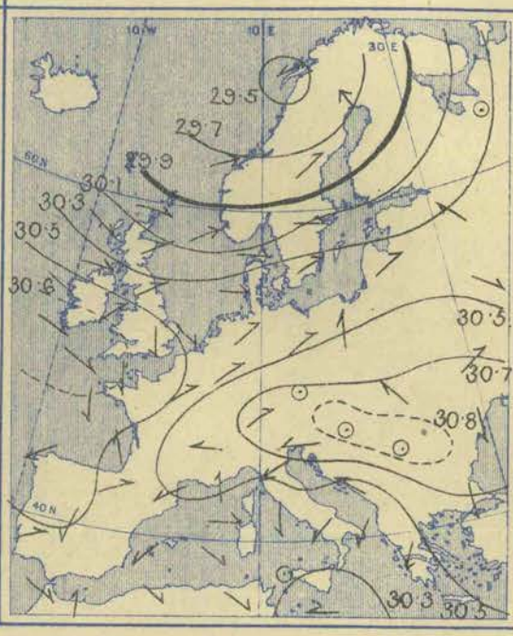


Weather in morning fine over the United Kingdom generally, but rainy in the extreme south-east of England, and also in the Shetlands; snow showers reported at Wick. Fine at many of the Swedish, German, and Russian stations, cloudy or dull in most other parts of the Continent, rain at Lyons, snow at Bodö, Helsingfors, and St. Petersburg. Rain falling later in the extreme north and north-west, as well as in the west of France, snow at some of the Swedish stations. Thunder and lightning at Sumburgh Head and Christiansund.

Temperature risen over northern Europe, fallen elsewhere—quickly in Ireland and Scotland. Morning readings highest, (1) 54° at Malta, 53° at Algiers, 50° at Barcelona; (2) 50° at Lorient, and 47° at Scilly, Dungeness, and the North Foreland. Lowest, – 7° Fahr. at Kharkov, – 6° at Hermanstadt, – 5° at Kiev, and – 4° at Moscow; considerably below the freezing point over northern and central Europe generally, and very little above it over central Ireland. Rising later to 45° and upwards in most parts of the United Kingdom, and to 50° and upwards over our south-west coasts, and the west and south of France.

Barometer and Wind. 8 a.m. and 6 p.m.



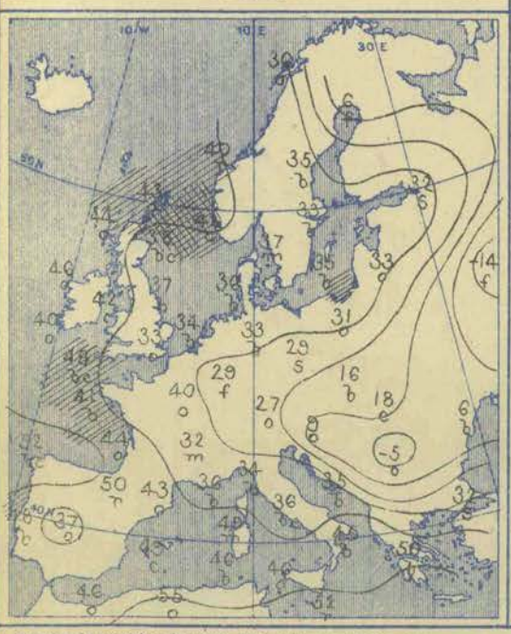


Wind Westerly or South-Westerly over all the more northern parts of our Islands, and strong in force in the Shetlands. Strong from the South-Westward or Southward over Denmark and the south of Scandinavia, but Easterly in the north of Scandinavia. Light from the North-Westward in the south of our Islands, but Southerly in the west of France. North-Westerly over the central and southern parts of Russia, but South-Easterly in Germany; North-Easterly in Spain and Italy. No important change occurring during day.

Barometer highest, 30·8 ins. and upwards over Austria and the south-west of Russia; 30·4 ins. and upwards in an anticyclone covering eastern and central Europe generally, and also in another system appearing over the south-west of our Islands. Lowest, 29·7 ins. and less in a large depression lying to the westward of Norway. Anticyclone in south-west subsequently increasing in height, and spreading north-eastwards; depression in far north travelling north-eastwards—centre shown near Bodö in evening

Wednesday, 29th January.

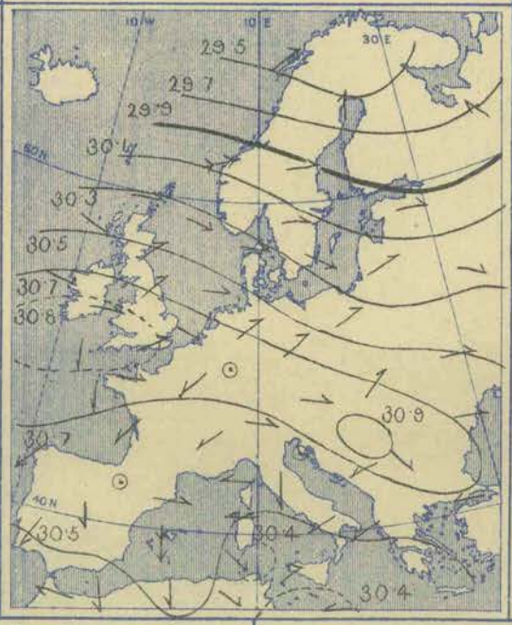
Temperature and Weather. 8 a.m.

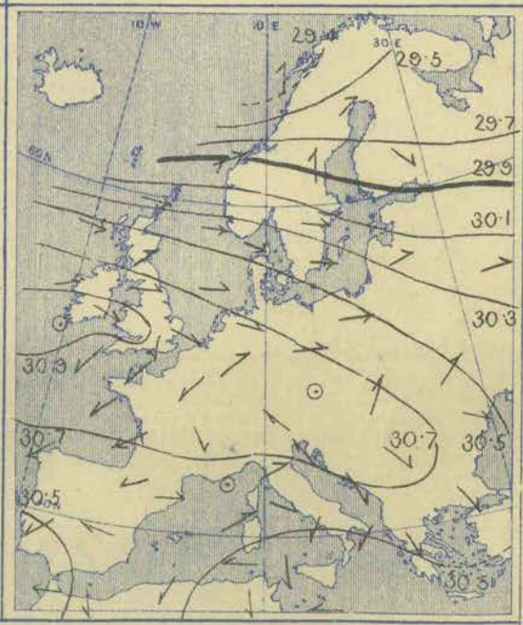


Weather in morning fine over the greater part of western and southern Europe, as well as in Sweden, but dull in the extreme west and north of our Islands, and the west of Norway, with rain at Christiansund; dull also in the south-west of France, with rain at Biarritz. Cloudy or overcast in Germany, Austria, and Russia, with snow at Berlin and St. Petersburg. Fog or mist reported in many parts of our Islands and the Continent. Slight rain falling later on our extreme north and north-west coasts, no important change occurring elsewhere.

Temperature fallen over England, France, and Italy, risen in most other countries. Morning readings highest, (1) 55° at San Fernando and Algiers, and 52° at Corunna and Malta; (2) 46° at Belmullet, and 45° at Sumburgh Head and Malin Head. Lowest, – 14° at Moscow, – 5° at Hermanstadt, – 2° at Nicolaieff, and + 6° at Odessa, and also at Haparanda. Below 32° Fahr. in most parts of Russia, Austria, and south Germany, and the central stations in England and France. Rising later to 45° and upwards over the United Kingdom generally, to 50° and upwards over our extreme south-west coasts, and the west and south of France. Frost occurring over England at night.

Barometer and Wind. 8 a.m. and 6 p.m.



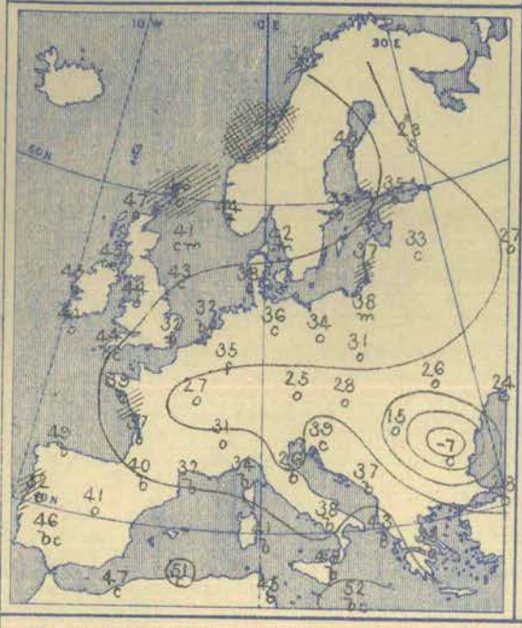


Wind Westerly over all the more northern parts of our Islands and the Continent; strong in force at some of the Scandinavian stations, with a gale at Christiansund. Light from the Northward in the extreme south of our Islands; North-Easterly or Easterly over France, Spain, and Italy, and strong in force at Corunna; calm or variable over Austria and the south of Russia. No important change occurring over western Europe during day.

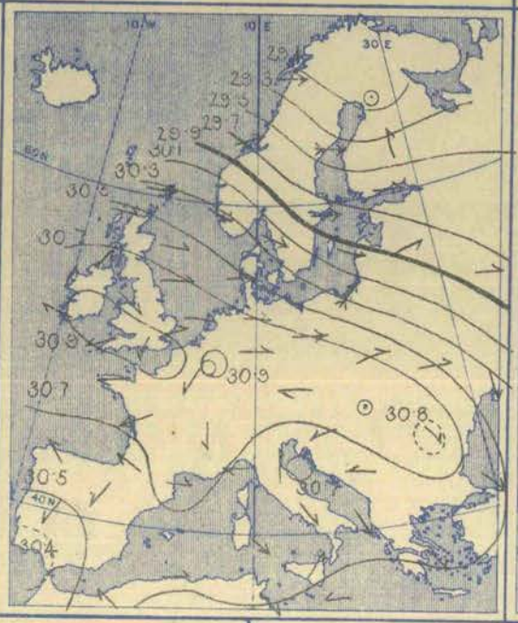
Barometer highest, 30·8 ins. to 30·9 ins. over all the more south-western parts of our Islands, and also in an elongated area stretching across Austria and south Germany; 30·3 ins. and upwards over all but the more northern parts of the Continent. Lowest, 29·5 ins. and less in a depression over the north of Scandinavia; gradients rather steep over northern Europe. Barometer subsequently rising to 30·9 ins. and upwards over Wales and the south of Ireland; and 30·36 ins. at Roche's Point.

Thursday, 30th January.

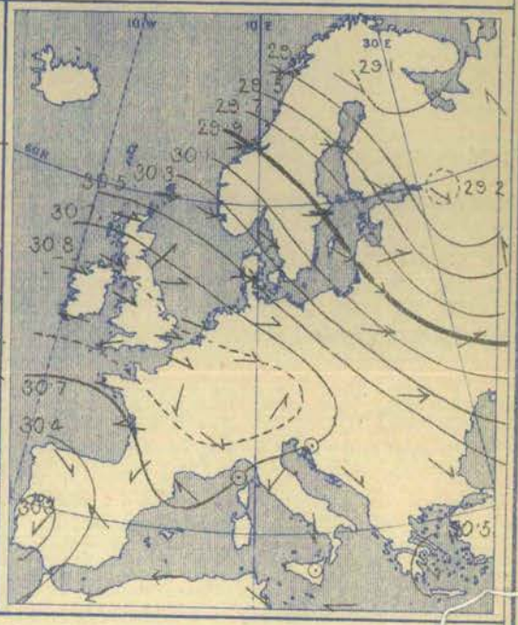
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Great Britain, the west and south of France, Italy, and the north of Spain, but foggy in the south-east of England, cloudy or dull elsewhere, with rain in the west of Norway, and with snow at Uleaborg and Kuopio. Slight rain falling later on some parts of our extreme north and north-west coasts, and a larger quantity at Christiansund. Snow reported at Moscow and St. Petersburg.

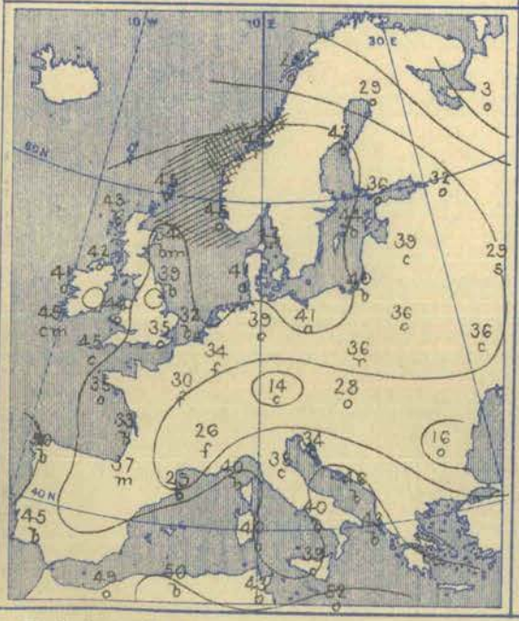
Temperature fallen over France, Spain, and Italy, but risen elsewhere, rapidly over central Russia. Morning readings highest, (1) 55° at San Fernando, 52° at Oporto and Malta, and 51° at Algiers; (2) 48° at Nairn and Hernösand, and 47° at Stornoway. Lowest, – 7° Fahr. at Hermanstadt, + 15° at Buda Pesth, and 24° at Prague and Odessa; below the freezing point over central Europe generally, and also over the south-eastern parts of England. Daily maxima below 45° at most of our south-eastern stations, but thermometer exceeding 55° in the north and east of Scotland, and reaching 54° at York. Rising to 50° and upwards over southern Europe, and reaching 64° at San Fernando.

Wind Westerly or South-Westerly over the northern parts of our Islands and the Continent generally, and strong to a gale in Scandinavia and Denmark; light from the North-Westward over Italy, Austria, and the south of Russia. North-Easterly or Easterly over Spain, France, and the south-west of our Islands. No important change occurring during day.

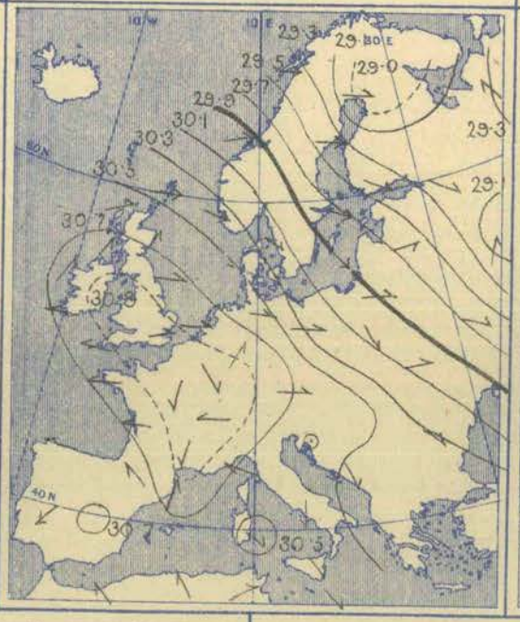
Barometer highest, 30·94 ins. at Roche's Point; 30·9 ins. and upwards over the southern parts of England and Ireland generally; 30·5 ins. and upwards over the whole of our Islands, and the central and southern parts of the Continent. Lowest, 29·1 ins. and less in a depression over Lapland; gradients steep over the more northern parts of the Continent. Slight fall taking place later over England, Ireland, and France, but general distribution of pressure remaining unchanged.

Friday, 31st January.

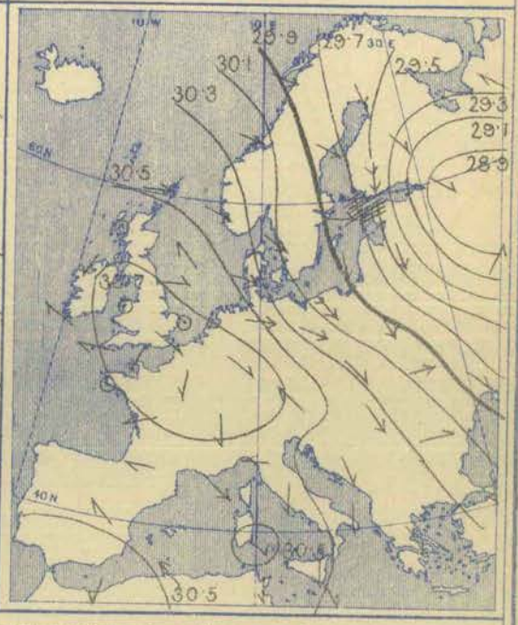
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over our northern and eastern coasts, as well as over Sweden, Finland, and the greater part of southern Europe. Cloudy or dull elsewhere, with fog in many parts of England and France, and with rain at Christiansund and Breslau. No important change occurring over western Europe during day.

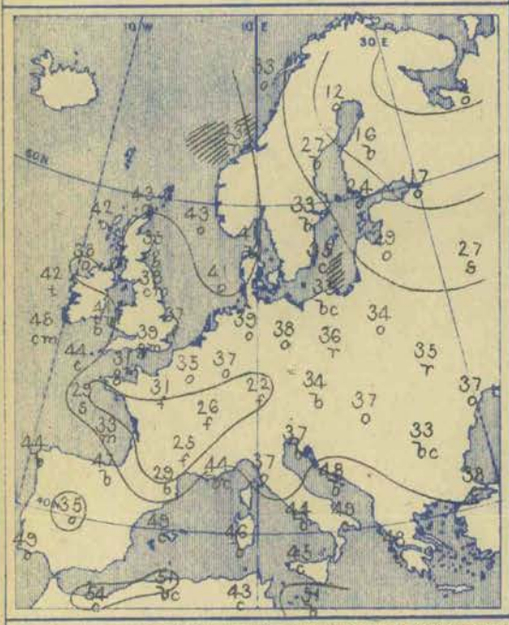
Temperature risen in the south of England, and also over Denmark, Germany, Russia, and eastern Austria, fallen in most other localities. Morning readings highest, (1) 54° at San Fernando, and 52° at Malta; (2) 45° at Valencia (Ireland), Roche's Point, and Scilly; (3) 45° at Christiansund, Skudesnaes, and Sumburgh Head. Lowest, (1) 3° at Archangel, and 20° at Uleaborg; (2) 14° at Munich, and 16° at Hermanstadt; below the freezing point in France, and very little above it over the central parts of Spain and Italy. Rising during day to between 47° and 49° at most of our own northern stations, but to very little above 40° in the south and east of England. Exceeding 55° in many parts of southern Europe, and exceeding 60° at some of the Spanish stations.

Wind light from the Westward or South-Westward over the more northern parts of our Islands; strong to a gale from the Westward or North-Westward over Scandinavia and Denmark, and moderate from the same quarters over Germany, Austria, and the south of Russia. Easterly (South-East to North-East) over Spain, France, and the south-western parts of the United Kingdom. Light from the Northward in Italy. Strong North-Westerly gale springing up later over the Baltic and the Gulf of Finland; gale subsiding on the Norwegian coasts.

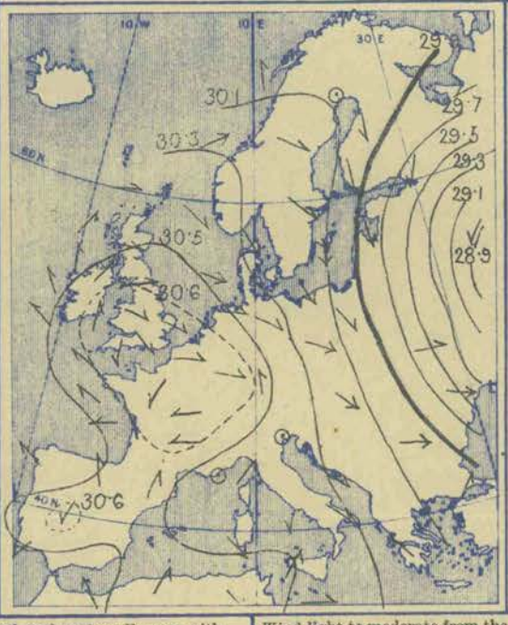
Barometer highest, 30·8 ins. and upwards over the greater part of Ireland, England, France, Belgium, and western Germany; 30·4 ins. and upwards over the whole of western, central, and southern Europe. Lowest, 29·0 ins. and less in a depression over Lapland; 29·1 ins. and less in another disturbance over central Russia. Northern depression subsequently moving south-eastwards, and barometer rising rapidly in the north of Scandinavia; gradual fall taking place over western and central Europe.

Saturday, 1st February.

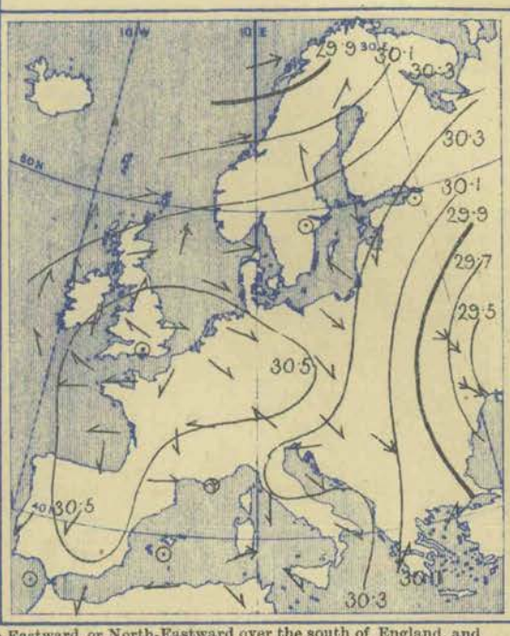
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of western, central, and eastern Europe, with mist and gloom over Great Britain, and with fog over central France. Rain falling at Christiansund, Breslau, and Lemberg, and snow at Moscow. Fine over Sweden and Finland, and also over southern Europe as a whole, but dull in central Spain and northern Italy. Sky clearing later in many parts of Great Britain, but rain falling in the west and extreme north of our Islands, as well as in the northern parts of Scandinavia.

Temperature fallen over the northern parts of our Islands and the Continent, but risen in most other localities. Morning readings highest, (1) 54° at Nemours, 52° at Oran, and 51° at Algiers and Malta; (2) 48° at Valencia (Ireland), and 47° at Roche's Point; (3) 43° at Christiansund, Skudesnaes, and Sumburgh Head. Lowest, 2° at Archangel, 12° at Haparanda, 16° at Kuopio, and 17° at St. Petersburg; below the freezing point in south Germany and central France. Daily maxima below 40° at some of our own central stations, but thermometer rising to 45° or more in the west and north. Exceeding 55° in several parts of southern Europe, and exceeding 66° at some of the Spanish stations.

Wind light to moderate from the Eastward or North-Eastward over the south of England, and the greater part of France and Spain; South-Easterly or Easterly on our western coasts; light from the Westward in the north and east of our Islands. Strong from the Northward over Finland and the Baltic, with a gale at Helsingfors and Wisby, and from the North-Westward or Westward over Denmark, Germany, Austria, and the south of Russia. Light to moderate from the North-Westward in Italy. Subsequently veering to the Southward or South-Westward on our own western coasts; strong South-Westerly winds setting in on the west coasts of Norway.

Barometer highest, 30·6 ins. and upwards over England, the Netherlands, western Germany, and the north-eastern and central parts of France; 30·3 ins. and upwards in an anticyclone covering nearly the whole of western, central, and southern Europe. Lowest, 28·9 ins. and less in a deep depression over Russia, with its centre to the south-eastward of Moscow. Anticyclone giving way gradually during day; Russian depression moving south-eastwards, but new disturbance beginning to approach the Norwegian coasts from the westward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week anticyclonic conditions were prevalent over the whole of the Continent, the central portion of the system being situated over the south of Sweden. In our Islands, however, the weather was affected by a rather deep depression which skirted our extreme north-western and northern coasts, and as this disturbance moved north-eastward to Scandinavia the Continental anticyclone receded southwards. A new high pressure system was, however, developed over the south-west of our Islands, and between the 28th and 30th January this area increased steadily both in size and height, the readings of the barometer over the southern parts of England and Ireland on the 30th being above 30·9 ins., or very nearly as high as those registered on the 9th of the same month. Towards the close of the week the anticyclone gradually gave way, and showed a tendency to move southwards. The weather experienced during its prevalence was mostly fair and dry; at first there was a considerable prevalence of bright sunshine, but later on the sky became dull and gloomy, with mist or fog in many places.

Over northern Europe the weather throughout the week remained under the influence of large depressions which moved eastwards or south-eastwards over Scandinavia and northern Russia. Strong winds or gales from Westward or North-Westward were therefore prevalent, with occasional rain, and in some places snow.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	17·5	+ 7·5	31	+ 14	EASTBOURNE	18·7	+ 4·6	30	+ 8
OSWALDKIRK (Yorkshire)	27·5	+ 16·3	47	+ 28	MANCHESTER (Oldham Road)	1·0*	?	2*	?
WORKSOP	16·9	+ 6·1	28	+ 10	TENBY				
THURCASTON (Leicestershire)	15·7	+ 4·7	26	+ 8	NEWQUAY	21·0	+ 6·0	33	+ 11
MARGATE	8·8	− 4·9	14	− 6	TORQUAY	22·5*	+ 7·8	36*	+ 12
WESTBOURNE (Sussex)	16·6*	+ 2·1	27*	+ 3	ARLEY COTTAGE (County Cavan)	9·8	− 2·8	17	− 4
BRIGHTON	19·8	+ 6·3	32	+ 10	GUERNSEY	22·5*	+ 6·8	35*	+ 11

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 6.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 8TH, 1896. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 32.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	30	48·6	40·3	44·4	6 above	24	+17	5	−37	73	+ 35	123	132
	1. SCOTLAND, EAST	54	28	49·2	37·5	43·4	6 above	29	+20	13	−30	66	+ 21	176	− 90
	2. ENGLAND, N.E.	57	25	47·4	35·1	41·3	3 above	15	+ 7	28	−10	62	+ 23	150	− 92
	3. ENGLAND, EAST	55	25	45·0	31·5	38·3	0 (average)	8	− 2	39	− 3	54	+ 10	182	− 96
	4. MIDLAND COUNTIES	57	20	46·4	32·8	39·6	1 above	12	+ 1	35	− 8	80	+ 26	189	−118
	5. ENGLAND, SOUTH	54	23	44·7	34·3	39·5	0 (average)	8	− 4	29	− 5	77	+ 16	124	−101
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	36	48·4	41·9	45·2	6 above	23	+13	0	−30	97*	+ 40	84	−107
	7. ENGLAND, N.W.	58	31	47·1	37·9	42·5	3 above	21	+12	11	−20	101	+ 54	82*	−120
	8. ENGLAND, S.W.	55	23	47·4	36·4	41·9	0 (average)	15	− 1	23	− 2	118	+ 33	84	− 79
	9. IRELAND, NORTH	54	35	49·6	40·4	45·0	4 above	28	+14	4	−22	130	+ 55	75	− 92
	10. IRELAND, SOUTH	57	31	51·9	43·3	47·6	5 above	39	+18	0	−20	178	+ 65	50	− 12
	—CHANNEL ISLANDS	56	34	47·1	39·0	43·1	1 below	20	− 1	8	− 4	170	+ 45	27	− 48

Rainfall.

	DISTRICTS. (See p. 32.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	9	3 less	31	− 1	7·6	− 0·3
	1. SCOTLAND EAST	2	2	5 less	21	− 3	2·0	− 1·9
	2. ENGLAND, N.E.	1	less than ½	4 less	17	− 5	1·4	− 1·3
	3 ENGLAND, EAST	2	1	4 less	19	− 4	1·7	− 1·1
	4. MIDLAND COUNTIES	2	1	5 less	17	− 6	1·3	− 2·0
	5. ENGLAND, SOUTH	1	1	5 less	15	− 7	1·3	− 2·4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	9	4 less	26	− 2	4·5	− 3·1
	7. ENGLAND, N.W.	4	4	3 less	20	− 5	2·7	− 1·5
	8. ENGLAND, S.W.	3	4	5 less	19	− 7	2·3	− 2·9
	9. IRELAND, NORTH	3	4	4 less	24	− 5	3·3	− 1·6
	10. IRELAND, SOUTH	4	8	1 less	21	− 6	3·1	− 2·4
	—CHANNEL ISLANDS	2	2	6 less	21	− 7	1·8	− 2·9

Bright Sunshine.

	DISTRICTS. (See p. 32.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	− 3	12	− 5	27	− 11	9	− 3
	1. SCOTLAND EAST	16	+ 3	27	+ 5	66	+ 9	21	+ 3
	2. ENGLAND, N.E.	5	− 8	8	−12	56	− 2	17	0
	3 ENGLAND, EAST	13	− 2	21	− 2	57	− 14	16	− 5
	4. MIDLAND COUNTIES	11	− 3	17	− 4	51	− 15	15	− 4
	5. ENGLAND, SOUTH	10	− 5	16	− 7	49	− 23	14	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	− 9	5	−14	38	− 17	12	− 5
	7. ENGLAND, N.W.	3	− 8	5	−13	30*	− 16	13	− 4
	8. ENGLAND, S.W.	8	− 9	13	−12	61	− 19	17	− 5
	9. IRELAND, NORTH	11	− 2	17	− 5	51	− 14	15	− 4
	10. IRELAND, SOUTH	9	− 6	15	− 9	52	− 28	15	− 8
	—CHANNEL ISLANDS	14	− 6	21	− 9	68	− 27	17	− 7

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was rather unsettled on our extreme north-western and western coasts, where slight rain was experienced at times. Over the greater part of the Kingdom, however, the weather was fair and dry until nearly the end of the week, when rain became general at the south-western and southern stations.

Temperature was much above the mean in Ireland and Scotland, the excess in the former country being 4° or 5°, and in the latter 6°. Over England as a whole, the values for the week differed very little from the normal, but in England N.E. and N.W., there was an excess of 3°. In the Channel Islands the temperature was a little below the mean. The highest of the maxima were registered on the 8th, when they ranged from 58° in England N.W., to 53° in Scotland N., and to 52° in Scotland W. The lowest of the minima, which were recorded during the earlier part of the period, varied from 20° in the Midland counties, and 23° in England S. and S.W., to 35° in Ireland N., and to 36° in Scotland W.

Rainfall was less than the mean in all districts; over southern, central, and all the eastern parts of England the fall was extremely slight.

Bright Sunshine exceeded the mean in Scotland E., but was deficient elsewhere. The percentage of the possible duration ranged from 27 in Scotland E., 21 in the Channel Islands and England E., to 8 in England N.E., and 5 in England N.W. and Scotland W.

Barometer and Wind.—During the earlier days of the week an anticyclone extended north-westward from the Continent over the greater part of England, causing light airs from between North-East and South-East in the English districts, and Southerly to South-Westerly breezes in the west and north. As the week progressed, however, the anticyclone receded gradually south-eastwards, while depressions began to skirt our extreme western and northern coasts. The wind consequently became Southerly and South-Westerly very generally, and occasionally blew freshly or strongly in the west. By the end of the week the depressions were spreading more over us, and a fresh Southerly gale was experienced at some of our north-western stations.

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* This value has been altered owing to the receipt of further information for a preceding week.

Erratum :—In the eighth line of the "General Remarks" in last week's Report, for "England S.W." read "England N.W."

II.—DATA from which the SUMMARY on page 31 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	34	47·4	41·4	44·4	+ 6·0	19	2	5	0·18	−0·62	*	*	*	*
	Stornoway	50	36	49·4	41·0	45·2	+ 6·4	27	3	4	0·92	−0·10	5·6	− 6·5	9	−11
	Wick	51	39	48·7	38·1	43·4	+ 5·6	26	11	2	0·06	−0·43	*	*	*	*
	Glencarron Ⓢ	53	35	47·9	39·5	43·7	+ 6·7	22	7	5	1·30	−0·72	*	*	*	*
	Fort Augustus Ⓢ	52	33	48·8	40·3	45·1	+ 7·0	29	5	4	1·01	+0·05	9·6	+ 2·5	15	+ 4
	Fort William Ⓢ	52	35	48·1	41·3	44·7	+ 5·7	22	2	5	2·12	+0·10	6·7	− 3·7	11	− 7
1. SCOTLAND, E.	Nairn	54	29	51·4	37·3	44·4	+ 6·9	37	13	2	0·06	−0·32	*	*	*	*
	Aberdeen	54	28	49·7	36·0	42·9	+ 5·1	32	17	1	0·01	−0·50	21·3	+ 5·3	36	+10
	Braemar Ⓢ	50	30	46·1	37·3	41·7	+ 7·2	11	19	2	0·19	−0·53	18·5†	+ 6·0†	31†	+10†
	Ochtertyre Ⓢ	54	32	49·7	29·3	44·5	+ 7·8	29	8	2	0·37	−0·65	*	*	*	*
	Leith	54	28	50·7	38·4	44·6	+ 5·4	33	10	1	0·24	−0·20	*	*	*	*
	Marchmont Ⓢ	50	28	47·7	36·4	42·1	+ 5·3	24	16	2	0·25	−0·40	10·3	− 3·5	17	− 6
2. ENGLAND, N.E.	Alnwick Castle	52	27	46·4	36·4	41·4	+ 3·2	12	23	1	0·01	−0·54	*	*	*	*
	Durham	55	25	48·1	34·6	41·4	+ 3·6	17	21	2	0·02	−0·43	6·9	− 6·9	11	−12
	Shields	57	30	49·1	36·1	42·6	+ 3·4	29	17	1	0·01	−0·41	*	*	*	*
	Scarborough Ⓜ	54	24	46·7	35·4	41·1	+ 2·1	13	27	0	—	−0·49	*	*	*	*
	York	56	25	48·9	32·4	40·7	+ 1·9	19	39	2	0·03	−0·40	3·7	− 7·6	6	−12
	Spurn Head	51	33	45·3	35·6	40·5	+ 1·6	9	25	0	—	−0·37	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	28	45·3	31·1	38·2	0·0	9	40	1	0·07	−0·42	12·0	− 2·7	19	− 5
	Yarmouth	49	31	43·6	33·0	38·3	+ 0·2	4	33	1	0·06	−0·42	*	*	*	*
	Geldeston	51	29	45·8	32·0	38·9	+ 0·1	11	38	2	0·06	−0·35	11·6	− 3·9	18‡	− 6‡
	Cambridge	55	25	45·6	30·7	38·2	− 0·4	10	42	1	0·07	−0·33	15·3	+ 0·3	24	+ 1
	Rothamsted	53	25	44·5	30·8	37·7	− 0·4	7	41	3	0·14	−0·43	13·2	− 0·8	21	− 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	28	47·6	32·6	40·1	+ 1·6	16	37	2	0·05	−0·39	*	*	*	*
	Loughborough	54	26	46·0	34·0	40·0	+ 1·0	11	31	1	0·03	−0·45	*	*	*	*
	Stamford (Ketton Hall)	54	26	46·1	32·0	39·1	+ 0·8	11	38	4	0·07	−0·42	*	*	*	*
	Cheadle Ⓜ	53	28	45·7	34·6	40·2	+ 2·6	10	29	1	0·17	−0·50	*	*	*	*
	Solihull	52	26	44·9	32·2	38·6	+ 0·4	8	37	2	0·09	?	*	*	*	*
	Churchstoke Ⓜ	54	26	47·8	?34·9	41·4	+ 2·8	16	29	3	0·11	−0·56	15·3	+ 1·3	24	+ 3
	Hereford Ⓜ	53	24	47·4	32·1	39·8	+ 0·4	15	39	2	0·09	−0·50	*	*	*	*
	Cirencester	57	29	46·1	30·6	38·4	+ 0·4	11	43	2	0·13	−0·57	12·2	− 3·0	19	− 4
	Oxford	54	26	45·7	32·6	39·2	− 0·1	10	36	1	0·12	−0·38	15·8	+ 1·2	25	+ 3
5. ENGLAND, S.	London	54	30	44·7	33·4	39·1	− 0·7	8	32	1	0·11	−0·39	3·2†	− 4·6†	5†	− 7†
	North Foreland	50	33	?44·1	35·1	?39·6	? + 0·2	?6	?26	0	—	?	*	*	*	*
	Strathfield Turgiss Ⓜ	54	25	45·5	30·4	38·0	− 1·1	10	43	4	0·24	−0·31	*	*	*	*
	Dungeness	50	30	43·7	36·0	39·9	+ 0·1	5	23	0	—	−0·39	*	*	*	*
	Hastings (St. Leonards)	49	35	44·4	36·2	40·3	+ 0·5	7	22	0	—	−0·60	11·2	− 6·5	17	−10
	Southampton	52	29	45·0	34·5	39·8	− 0·9	8	29	1	0·13	−0·59	9·0	− 7·3	14	−11
	Hurst Castle	51	31	45·0	36·6	40·8	− 0·1	8	21	1	0·08	−0·54	*	*	*	*
	Stowell Ⓜ	53	23	45·3	32·2	38·8	− 0·8	9	37	2	0·26	−0·50	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	38	49·5	42·4	46·0	+ 6·0	28	0	5	1·32	−0·55	*	*	*	*
	Glasgow	50	38	47·6	41·5	44·6	+ 5·8	20	1	3	0·83	−0·08	0·8	− 8·1	1	−13
	Ardrossan	49	40	47·3	42·0	44·7	+ 4·5	19	0	4	0·50	−0·42	*	*	*	*
	Glenlee Ⓢ	51	36	49·4	40·9	45·2	+ 7·4	27	3	5	1·20	−0·24	*	*	*	*
	Douglas (Isle of Man)	50	40	48·3	42·9	45·6	+ 4·9	25	0	4	0·43	−0·54	5·1	− 9·9	8	−16
7. ENGLAND, N.W.	Stonyhurst	52	33	45·0	37·4	41·2	+ 2·5	8	18	4	0·66	−0·28	2·1	−10·1	3	−16
	Blackpool Ⓜ	53	32	47·4	36·0	41·7	+ 2·5	15	25	4	0·38	−0·30	2·4	− 9·8	4	−16
	Manchester (Prestwich)	54	31	45·4	36·0	40·7	+ 2·0	10	23	5	0·24	−0·41	0·8	?	1	?
	Liverpool Obsy. (Bidston)	57	32	48·1	35·1	42·1	+ 3·1	26	17	4	0·08	−0·41	*	*	*	*
	Llandudno Ⓜ	58	35	49·3	41·6	45·5	+ 3·8	26	1	3	0·11	−0·50	10·1	− 3·9	16	− 7
	Holyhead	50	36	47·3	40·4	43·9	+ 1·8	20	4	6	0·83	+0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	54	25	48·7	32·7	40·7	+ 0·3	19	37	4	0·64	−0·48	*	*	*	*
	Pembroke	51	37	48·1	42·0	45·1	+ 3·0	22	0	5	0·42	−0·36	7·5	−19·0	12	−14
	Bristol (Montpelier)	54	26	46·7	35·2	41·0	+ 0·9	13	27	1	0·28	−0·49	*	*	*	*
	Arlington (N. Devon)	53	25	47·1	32·9	40·0	− 0·7	14	35	3	0·72	−0·19	*	*	*	*
	Cullompton Ⓜ	54	23	46·7	31·6	39·2	− 1·3	13	40	2	0·12	−0·51	7·2	− 7·3	11	−11
	Falmouth	55	33	48·5	41·9	45·2	+ 1·3	23	0	2	0·23	−0·76	10·2	− 7·0	16	−10
	Plymouth	52	28	47·1	38·2	42·7	0·0	21	11	2	0·29	−0·52	4·6	−11·6	7	−18
	Prawle Point	51	31	46·0	36·9	41·5	− 0·7	11	21	1	0·18	−0·40	*	*	*	*
9. IRELAND, N.	Malin Head	51	37	48·3	40·3	44·3	+ 2·2	23	5	3	0·28	?	*	*	*	*
	Londonderry	53	36	49·9	40·5	45·2	+ 4·2	29	4	4	0·41	−0·44	*	*	*	*
	Edenfel (Omagh)	51	35	48·7	38·6	43·7	+ 5·1	26	10	3	0·58	−0·16	*	*	*	*
	Belmullet	52	40	50·6	43·4	47·0	+ 3·8	35	0	2	0·50	−0·68	*	*	*	*
	Markree Castle	54	38	51·0	41·1	46·1	+ 5·9	32	3	3	0·57	−0·11	13·5	+ 0·4	21	0
	Brookeborough												*	*	*	*
	Armagh	53	37	49·7	41·2	45·5	+ 5·6	28	2	2	0·25	−0·27	11·2	− 1·9	18	− 3
	Donaghadee	52	35	48·9	38·9	43·9	+ 2·9	21	9	3	0·25	−0·45	*	*	*	*
	Edgeworthstown	52	36	49·5	39·3	44·4	+ 5·5	28	8	3	0·47	−0·26	*	*	*	*
10. IRELAND, S.	Dublin	57	37	51·7	42·6	47·2	+ 4·9	36	0	3	0·21	−0·35	10·3	− 5·7	16	− 9
	Parsonstown	54	37	51·9	40·0	45·5	+ 4·6	33	6	2	0·66	+0·01	8·0	− 6·5	13	−10
	Kilkenny	55	31	51·6	39·7	45·2	+ 3·8	32	6	5	0·67	−0·08	*	*	*	*
	Roche's Point	54	42	51·4	46·3	48·9	+ 5·1	48	0	4	0·86	−0·30	*	*	*	*
	Valencia	63	43	52·6	45·7	49·2	+ 4·2	50	0	5	1·38	+0·08	10·0	− 5·8	16	− 9
	Killarney	56	41	53·6	45·5	49·6	+ 6·4	53	0	7	1·43	?	*	*	*	*
	Foynes	54	39	52·4	43·3	47·9	+ 6·4	41	0	3	0·46	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	40	52·1	43·0	47·6	+ 2·1	39	0	3	0·36	−0·43	16·5	?	25	?
	Jersey	52	34	42·1	34·9	38·5	− 4·1	0	25	0	—	−0·70	5·7	−14·1	9	−22

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

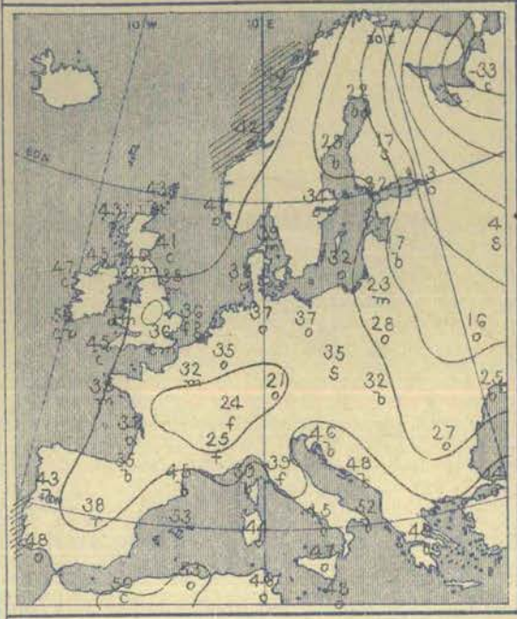
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

‡ Errata:—The corresponding values in last week's Report should read "26," "+ 3."

Sunday, 2nd February.

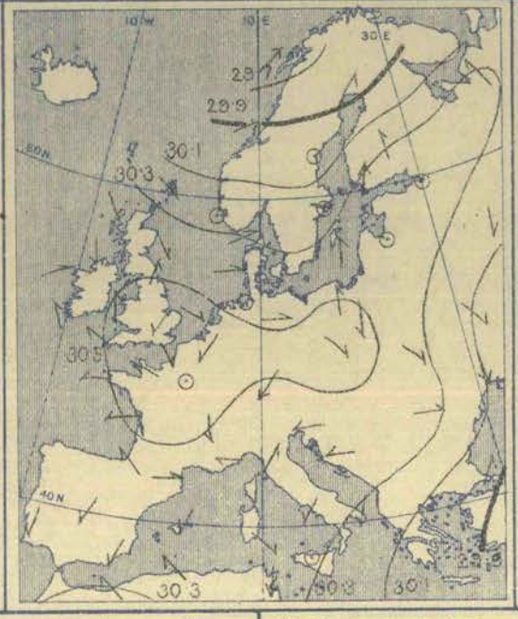
Temperature and Weather. 8 a.m.

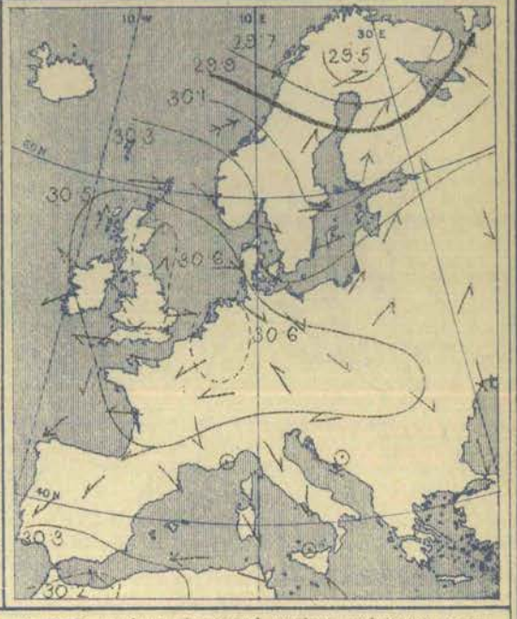


Weather in morning fine and bright over the Mediterranean, southern and south-western Europe, as well as in some parts of our Islands and the north of Sweden; cloudy or overcast over Russia, with snow at Moscow; hazy or foggy over many parts of western Europe. A little rain later at many of the Baltic and Scandinavian stations, and in some of the northern and north-western parts of our Islands.

Temperature risen in Ireland and Scotland, fallen fast over England, and slightly over central Europe. Morning readings exceeding 50° on the Algerian coast, 50° at Valencia, 47° at Roche's Point and Belmullet, 45° at Smaburgh Head, 42° at Christiansund. Lowest, - 33° Fahr. at Archangel, + 3° at St. Petersburg, 4° at Moscow, and below 20° over Russia generally, 21° at Munich, 23° to 25° over the inland parts of the south of France, 27° at Loughborough and Oxford, 31° at Cambridge. Rising later to about 40° over England, to 50° and more at the Irish stations, to between 50° and 60° in the south of France, but not touching 45° over Germany.

Barometer and Wind. 8 a.m. and 6 p.m.



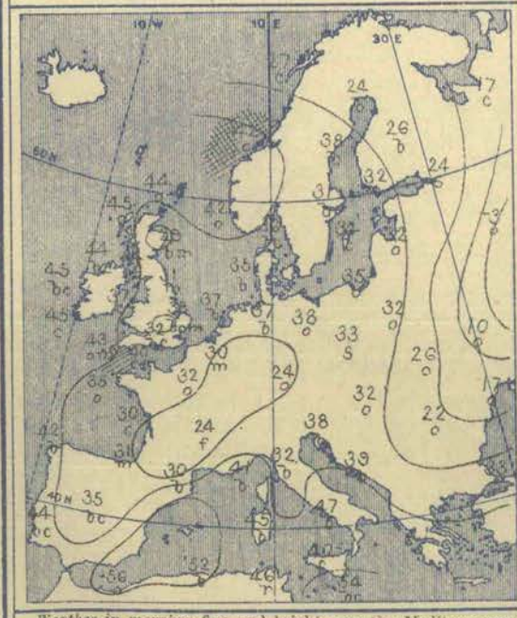


Wind light and anticyclonic over the Baltic provinces, the central, southern, and western parts of Continental Europe, as well as England and Ireland; North-Westerly moderate in Scotland; Westerly over Denmark and the west of Norway; Southerly over Finland; South-Westerly over Lapland. Northerly to Easterly breezes prevalent over the Mediterranean. South-Easterly breeze setting in over Ireland later, and the Westerly wind in Norway increasing to a gale.

Barometer highest, 30·5 ins. and more to 30·4 ins. in an anticyclonic system lying over Austria, Germany, Spain, France, England, and Ireland. Lowest, below 29·7 ins. and less over Finmark—gradients being moderate over all the northern countries; and below 30·1 ins. over Greece—gradients being very slight. Pressure increasing over the British Islands later, decreasing rapidly over Lapland, increasing very rapidly over Russia.

Monday, 3rd February.

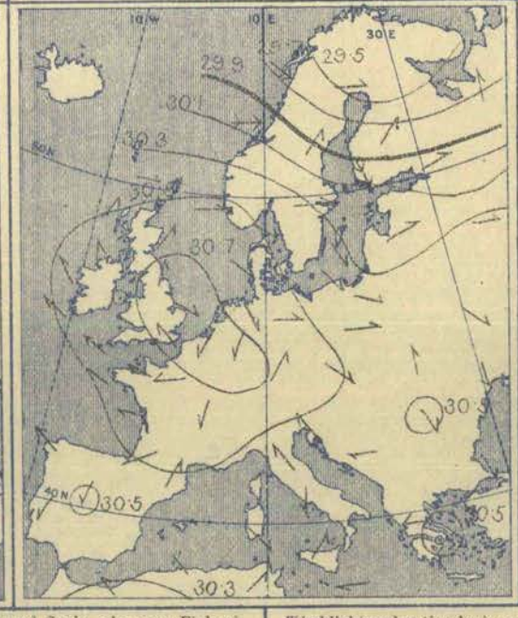
Temperature and Weather. 8 a.m.

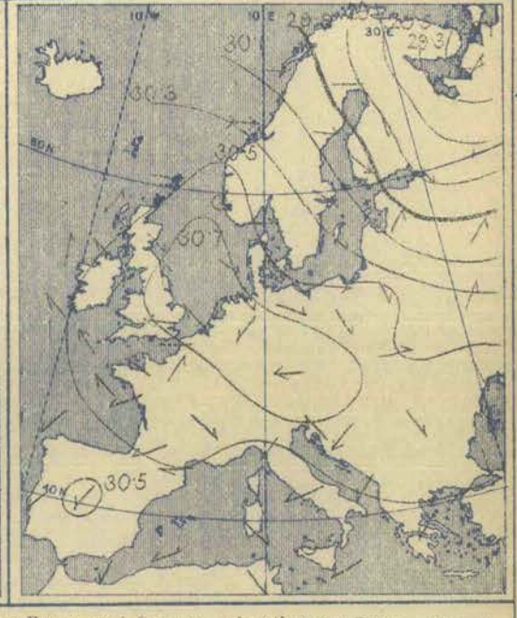


Weather in morning fine and bright over the Mediterranean and Spain, also over Finland, Sweden, and several parts of our Islands. Dull and gloomy elsewhere, with snow in some parts of Germany, fog and haze over the British Islands. Considerable rain in the north-west of Norway later, and smaller quantities at several of our own western stations. Weather dull and hazy over the United Kingdom as a whole, but clear in a few localities; considerable rain at Valencia (Ireland), and at Christiansund.

Temperature fallen decidedly in the west and north, changing very fitfully in many places. Highest, (1) 56° at Nemours, 54° at Malta, 52° at Algiers; (2) 45° to 44° on the west coasts of our Islands, the Hebrides, and Shetlands, 42° at Skudesnaes and Christiansund. Lowest, - 3° Fahr. at Moscow, + 10° at Odessa, Kiev, and Kharkov, 17° both at Nicolaieff and Archangel, and below the freezing point over Russia generally, south Germany, and the inland parts of the south of France. Rising later to 50° or more at Valencia (Ireland) and Nairn, and to 45° or more at our western and northern stations generally; touching 57° at Nice and Lisbon, 61° at the Azores, and 66° to 65° over Algeria and the south of Italy.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind light and anticyclonic over France, south Germany, and south-eastern Europe, strong to moderate from South-East over the Bay of Biscay, and on our own western coasts; South-Westerly to Westerly light over Scotland; Westerly and North-Westerly strong to a gale on the coasts of northern Europe. Becoming more Southerly on our western coasts later, but moderating in force.

Barometer highest, 30·7 ins. and more to 30·5 ins. in an anticyclone covering western Europe and the British Islands, and 30·5 ins. to 30·4 ins. over the south-eastern countries. Lowest, 29·5 ins. and less over Lapland and the Kola Peninsula (gradients steep over northern Europe generally), and below 30·3 ins. over Morocco and Algeria. Giving way a little over our Islands later, rising fast over Scandinavia—especially in the north.

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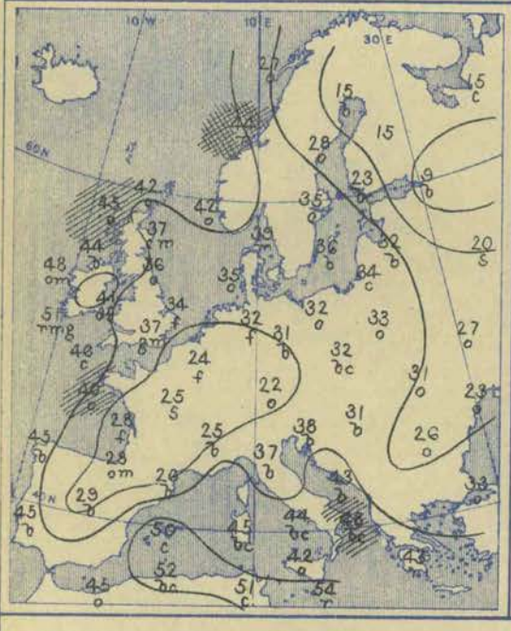
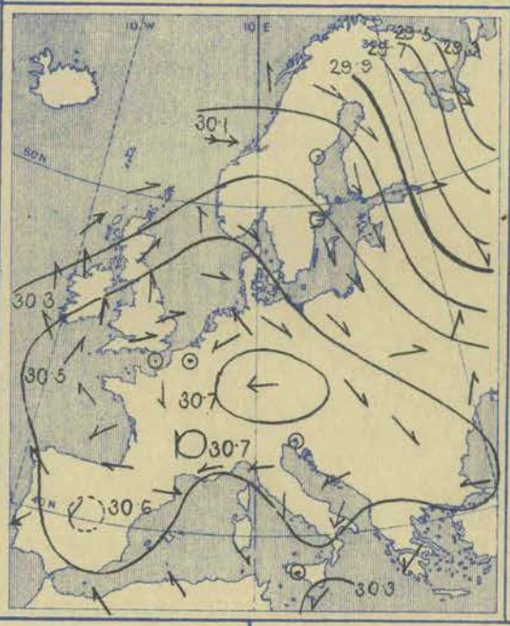
Tuesday, 4th February.

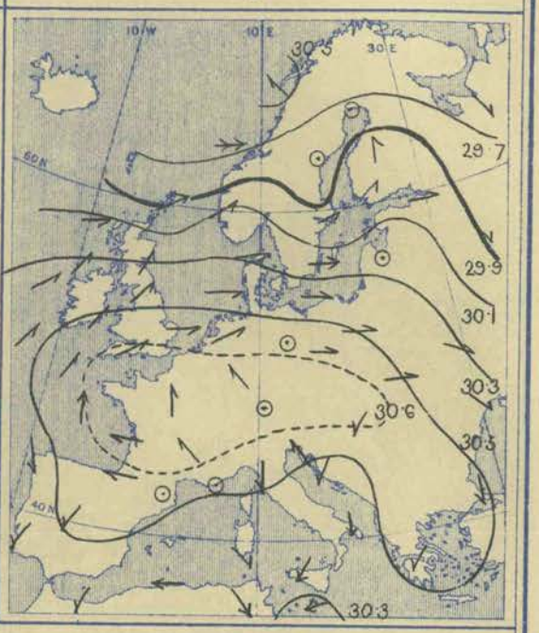
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, south-western, and many parts of central and northern Europe; cloudy or overcast elsewhere, foggy in the Netherlands and east of England; rain falling in the south and east of Ireland; snow at Moscow. Considerable rain over Norway later, and snow over northern Europe; a little rain at times in the north and west of the British Islands.

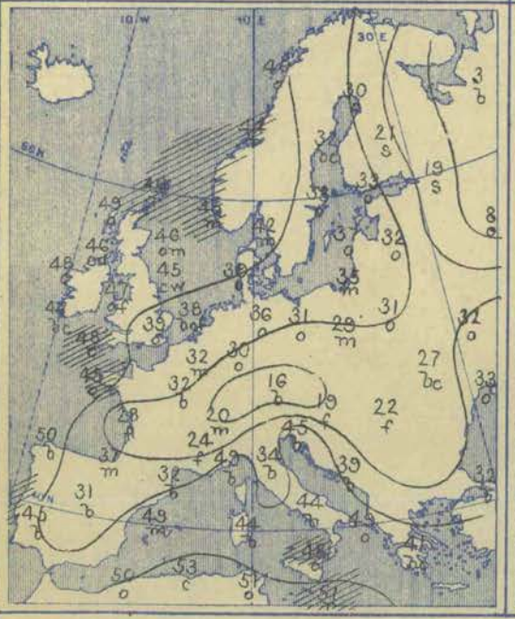
Temperature rising in many parts of our Islands, falling over Russia. Morning readings highest, 54° to 50° on the southern side of the Mediterranean, 51° at Valencia, 45° at Stornoway, and 44° at Christiansund. Lowest, (1) 6° Fahr. at Kharkov, 9° at St. Petersburg, 15° at Archangel and Haparanda, 19° at Odessa; (2) 22° at Munich, 24° at Belfort and Brussels, 25° at Paris and Lyons. Rising decidedly in the west and north of our Islands later, and exceeding 60° over Spain, Algeria, and the south of Italy. Sharp frost over east of England at night.

Wind light and anticyclonic over all the central parts of Europe, including the eastern half of England. Southerly moderate to strong at our western stations; South-Westerly to Westerly in the north (a gale at Christiansund); North-Westerly over Finland and the Baltic; North-Easterly and Easterly very fresh over the eastern half of the Mediterranean. Becoming more Westerly in our Islands later, and increasing in force from that quarter over the greater part of Scandinavia, but backing to the Eastward at Bodö.

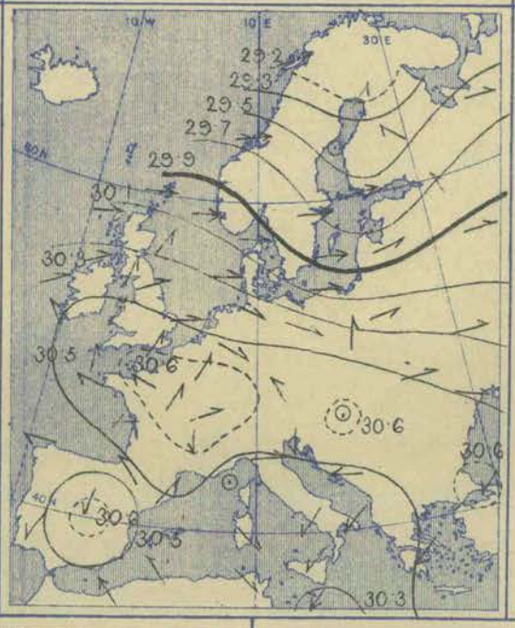
Barometer highest, 30·7 ins. and more to 30·4 ins. in a large anticyclone covering the whole of central and western Europe. Lowest, 29·3 ins. and less in a larger depression over the north-east of Russia (gradients steep over that country); below 30·2 ins. in the Shetlands and Hebrides, and 30·3 ins. at Malta. Falling decidedly over Scandinavia later in consequence of a new depression advancing to northern Europe from the Westward.

Wednesday, 5th February.

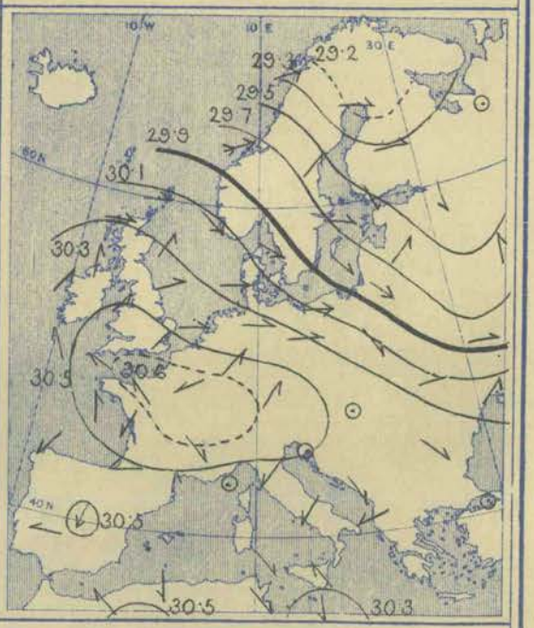
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, and the south-western, southern, and south-eastern parts of Europe, as well as at a few stations in the north and north-west; cloudy or overcast elsewhere, with haze or fog in places, rain in the Shetlands and west of Norway, snow at St. Petersburg. Heavy rain later in the west of Norway, and slight falls at several of our own north-western and western stations; some snow in Russia.

Temperature risen over the British Islands and northern Europe, fallen over the south-eastern and southern countries. Morning readings exceeding 50° on the southern shores of the Mediterranean, 50° at Corunna, 49° at Stornoway, and 48° to 45° at many of our western and northern stations. Lowest, (1) 3° at Archangel, 8° at Moscow, 19° at St. Petersburg, 21° at Kuopio; (2) 4° at Kharkov, 16° to 25° over Austria-Hungary, 20° at Belfort, 22° at Limoges. Rising later to between 54° and 50° in many parts of the United Kingdom, and to 61° at Nice, Perpignan, and Lisbon, 63° at Nemours, 66° in the south of Spain, but failing to reach 40° over our eastern counties, or the freezing point over Germany.

Wind (1) light and anticyclonic over western, central, and south-eastern Europe; (2) mainly Westerly over the northern countries, moderate to very strong in force, and blowing a gale at Christiansund; (3) Easterly to North-Easterly over southern Europe and the greater part of the Mediterranean. Veering Northwards and moderating over Finland and the Baltic provinces later, but blowing hard at Neufahrwasser.

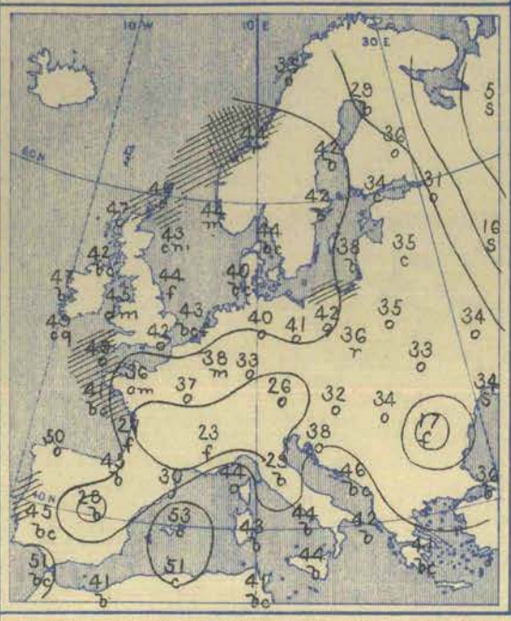
Barometer highest, 30·6 ins. and more to 30·4 ins. in a large anticyclone covering all the southern half of Europe. Lowest, 29·2 ins. and less over Lapland (gradients steep over Scandinavia and the Baltic), and below 30·3 ins. in the neighbourhood of Malta. Rising over northern Europe later, but beginning to fall again in the west of our Islands and at Lisbon.

Wyman & Sons, Lt., Lith. 63, Carter Lane.

Thursday, 6th February.

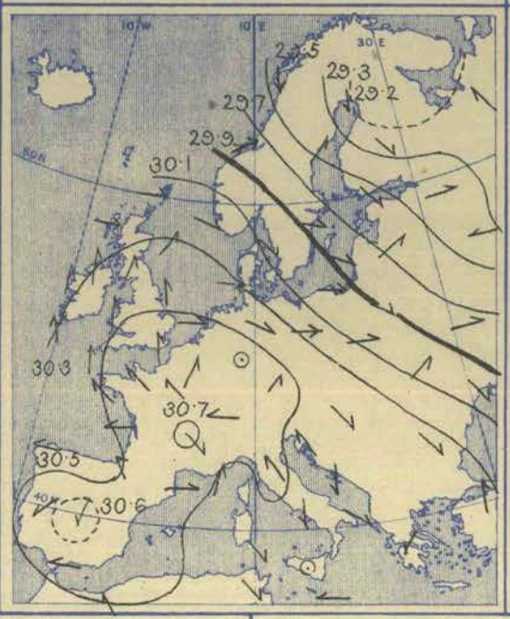
Temperature and Weather.

8 a.m.

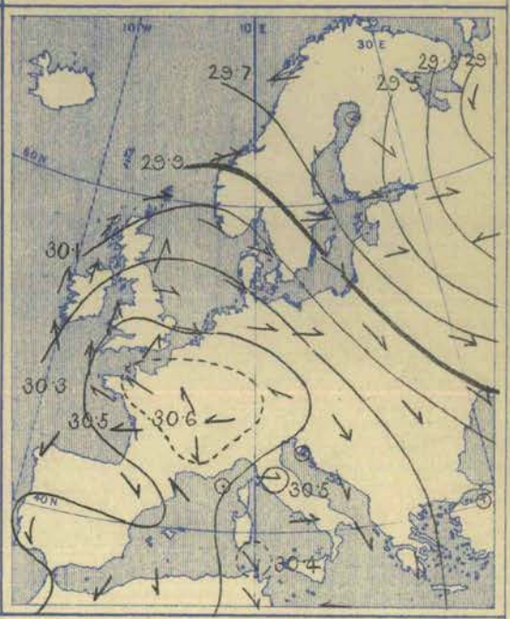


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over the Mediterranean, south-western and southern Europe, as well as on the Swedish coasts, and in several parts of Ireland and Scotland. Cloudy or overcast elsewhere, very slight rain at Holyhead, larger quantities at Christiansund, snow at Archangel and Moscow, as well as in the extreme south of Russia. Some rain at our extreme north-western stations later, a considerable amount at Christiansund, and snow at Archangel and Moscow. About 0·4 in. of rain at Sfax.

Temperature fallen somewhat at our western and northern stations, risen fast over central Europe. Morning readings highest, 50° and more in the extreme south, and at Corunna, 49° at Scilly and Valencia (Ireland), 47° at Belmullet and at Stornoway, 44° in the west of Norway, 42° at Stockholm and Swinemünde. Lowest, 5° Fahr. at Archangel, 16° at Moscow, 17° at Hermanstadt, and 21° to 24° over the inland parts of southern France, but exceeding 32° over Germany and the northern parts of Austria. Rising to between 50° and 56° in the western and northern parts of our Islands later, and in the south-west and south of France, to 61° at some Algerian stations, and to 66° at Cagliari and Palermo.

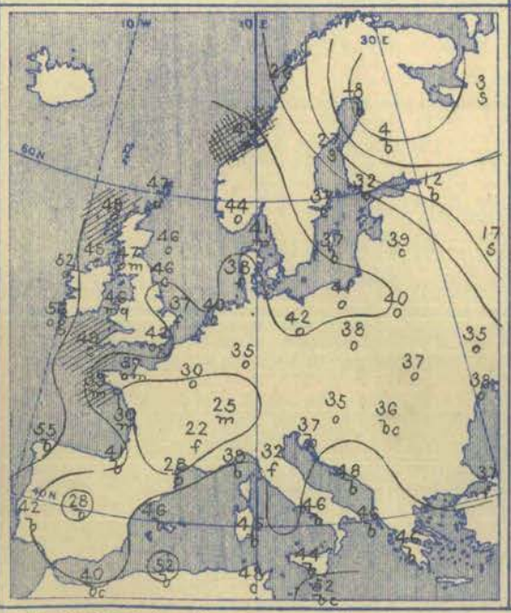
Wind very light and anticyclonic over France, Spain, and south-eastern Europe; Southerly moderate to strong in the west of our Islands; light in the east; West-South-Westerly, a gale at Christiansund; North-Westerly to Westerly over Finland, the Baltic, western and central Russia. No great change later.

Barometer highest, 30·7 ins. to 30·4 ins. in a complex anticyclone covering Spain, France, south-eastern Europe, and a great deal of the Mediterranean. Lowest, below 29·2 ins. over the east of Lapland, the north of Finland, and the White Sea; 29·3 ins. at Moscow. Falling generally over our Islands later, rising decidedly over northern Europe.

Friday, 7th February.

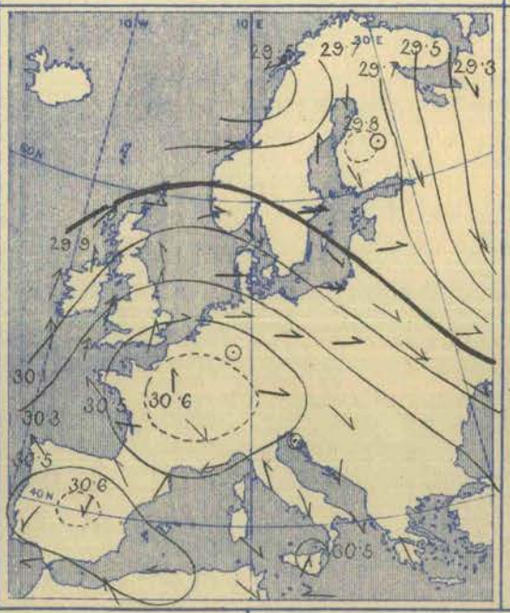
Temperature and Weather.

8 a.m.

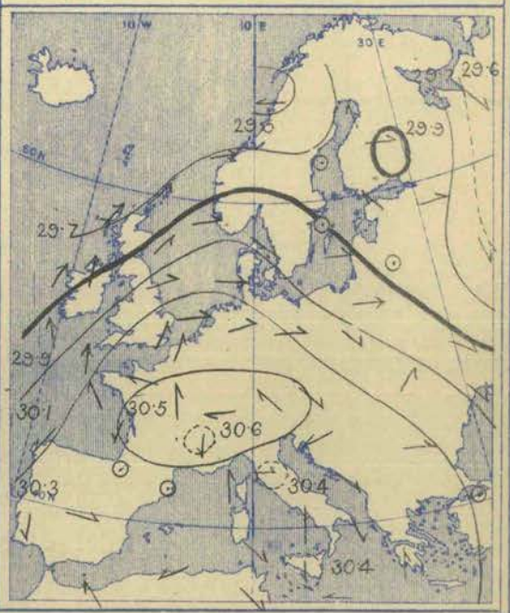


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the eastern and central parts of Great Britain, but dull over western and central Europe as a whole, with fog or mist in many places, and with rain at Christiansund and Sumburgh Head. Fine over southern Europe, and also over the greater part of Sweden and Finland, but snow reported at Archangel and Hernösand, as well as at Moscow. Rain falling later in Norway, and in the west and extreme north of our Islands—heavily in the south of Ireland and south Wales.

Temperature fallen rapidly in Finland and the north of Sweden, risen in most other countries. Morning readings highest, (1) 53° at Sfax, and 52° at Algiers and Malta; (2) 53° at Valencia (Ireland), 52° at Belmullet, and 50° at Roche's Point; above 45° in the west and north of our Islands generally. Lowest, − 8° Fahr. at Haparanda and Uleaborg, − 4° at Kuopio, + 3° at Archangel, and 12° at St. Petersburg; considerably below the freezing point over all the greater part of Sweden and Russia, and over central France. Rising later to between 50° and 54° in the west and north of our Islands generally, but remaining below 45° in the south-east of England. Reaching 54° at Nice and Biarritz, and 56° at Perpignan, 63° at Algiers, 66° at Cagliari.

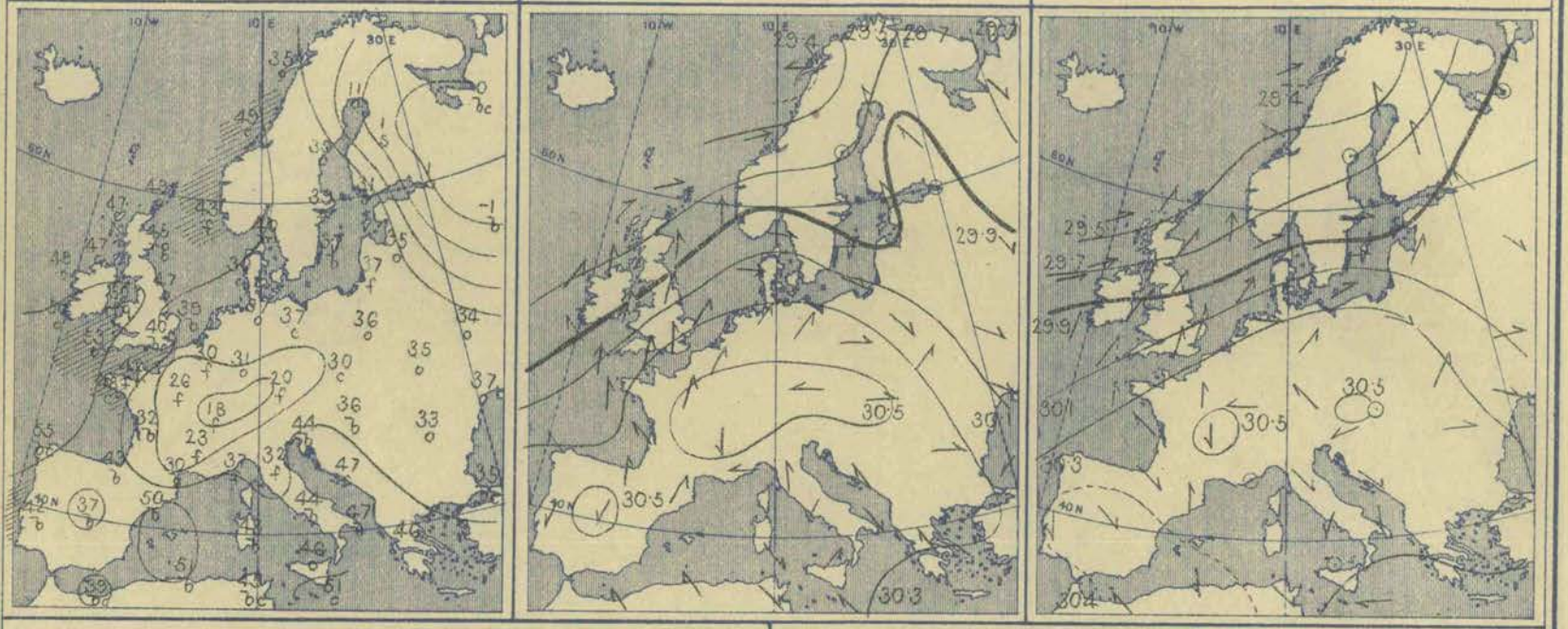
Wind Southerly or South-Westerly in our Islands, and strong in force on our western coasts; Westerly on the eastern shores of the North Sea, and also over Germany; still blowing a gale at Christiansund; North-Westerly over Russia and Austria; Northerly in Italy. Easterly over the Spanish Peninsula, and the west and south of France. Subsequently increasing to a gale from the Southward on some of the more exposed parts of our western and northern coasts; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards over Belgium, western Germany, and central France, and also in another area over central Spain; 30·4 ins. and upwards in an anticyclone covering the whole of central and southern Europe, and embracing also the greater part of England. Lowest, 29·2 ins. and less in a large depression over Russia; 29·5 ins. and less in a smaller disturbance off the north-west of Norway. Rather brisk fall taking place in the extreme west of our Islands during day, and new disturbance approaching our western coasts.

Wyman & Sons Lt. Lith. 63, Carter Lane.

Saturday, 8th February.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.



Weather in morning very foggy over France and the Netherlands, fine and bright over the east of England, as well as over Spain and the Mediterranean; cloudy or overcast elsewhere, with rain at many of our western stations, snow over Finland, rain in the south of Russia. Considerable rain in Norway later, and smaller quantities over the British Islands and the Netherlands; none reported from France.

Temperature risen over England and also over Finland, fallen over Russia and central Europe. Morning readings highest, 51° at Malta, 53° to 55° on our extreme south-west coasts, 49° at Sumburgh Head and Christiansand. Lowest, – 1° Fahr. at Moscow, 0° to +1° over the north of Russia, 9° at Uleaborg, 24° at Helsingfors; above 35° over north Germany and Hungary, but 18° at Belfort, 23° at Lyons and Limoges, 26° at Paris, 30° at Brussels. Rising later to between 50° to 56° over the greater part of our Islands; but touching only 41° at Paris, 39° at Berlin, 34° at Lyons, and 28° at Munich.

Wind very light and anticyclonic over central and southern Europe, South-Easterly fresh over the Bay of Biscay, Southerly moderate to a gale over the British Islands; South-Westerly strong in the west of Norway (but Easterly at Bodö), Southerly over Finland, Westerly to North-Westerly over Russia. Veering to South-Westward over our Islands later, and beginning to moderate at our western stations.

Barometer highest, 30·6 ins. to 30·4 ins. over Spain, France, and Germany, and exceeding 30·2 ins. over the southern parts of our Islands and Holstein. Lowest, below 29·4 ins. over Finmark, and below 29·6 ins. over the Hebrides—gradients steep over England, slight over France and central Europe. Beginning to rise over Ireland later, and rise spreading northwards and eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of last week an anticyclone embraced nearly the whole of western, central, and southern Europe, the central portion of the system being located at first over England and the Netherlands, and afterwards over France. Over the southern countries the wind was light and variable, in France Easterly, and in our Islands Southerly or South-Westerly, the weather being mostly fair and dry, but with fog or haze in places. Over northern Europe the conditions were affected by depressions which passed eastwards across the extreme northern parts of Scandinavia and Russia, and which occasioned strong Westerly winds or gales, with frequent falls of rain or snow.

Towards the close of the period depressions began to appear off the north of Scotland, and on the 7th and 8th, when one of these spread southwards, rain fell in most parts of the United Kingdom, the amount being, however, mostly slight.

Temperature was, as a rule, high for the time of year, especially in the west and north, but over central France and south Germany sharp frosts were reported, the weather in those regions being colder than in any other part of Europe, with the exception of Sweden and Russia.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	14·3	+ 3·3	23	+ 4	EASTBOURNE	13·2	- 2·6	20	- 3
OSWALDKIRK (Yorkshire)	5·4	- 7·4	8	- 12	MANCHESTER (Oldham Road)	1·0*	?	2*	?
WORKSOP	5·4	- 6·9	9	- 10	TENBY	7·3*	- 10·5	11*	- 17
THURCASTON (Leicestershire)	5·9	- 6·4	9	- 10	NEWQUAY	13·5	- 3·3	21	- 4
MARGATE	11·3	- 3·4	17	- 5	TORQUAY	5·6*	- 10·2	9*	- 15
WESTBOURNE (Sussex)	10·6*	- 5·4	16*	- 10	ARLEY COTTAGE (County Cavan)	6·8	- 6·4	11	- 11
BRIGHTON	12·7	- 2·8	20	- 4	GUERNSEY	19·7*	+ 1·7	30*	+ 3

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 7.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 15TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 38.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	32	48·6	41·0	44·8	7 above	24	+17	3	−33	97	+ 52	126	−165
	1. SCOTLAND, EAST	56	34	49·6	40·6	45·1	8 above	28	+19	4	−38	94	+ 40	180	−128
	2. ENGLAND, N.E.	55	37	49·3	41·0	45·2	7 above	27	+18	3	−32	89	+ 41	153	−124
	3. ENGLAND, EAST	56	30	49·3	35·8	42·6	4 above	30	+18	17	−23	84	+ 28	199	−119
	4. MIDLAND COUNTIES	56	27	50·1	37·9	44·0	5 above	31	+19	11	−28	111	+ 45	170	−146
	5. ENGLAND, SOUTH	58	29	49·5	37·9	43·7	4 above	29	+15	11	−20	106	+ 31	135	−121
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	33	49·9	42·4	46·2	7 above	29	+19	0	−29	126	+ 59	84	−136
	7. ENGLAND, N.W.	54	30	49·2	40·5	44·9	5 above	27	+17	4	−25	127*	+ 70	86	−145
	8. ENGLAND, S.W.	59	27	50·8	40·2	45·5	4 above	32	+15	5	−19	150	+ 48	89	− 98
	9. IRELAND, NORTH	55	31	49·6	41·8	45·7	5 above	27	+13	1	−24	157	+ 68	76	−116
	10. IRELAND, SOUTH	58	29	51·1	39·4	45·3	3 above	34	+13	7	−11	212	+ 78	57	− 93
	—CHANNEL ISLANDS	59	34	53·4	41·9	47·7	3 above	40	+18	0	−11	210	+ 63	27	− 59

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 38.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	19	7 more	36	0	9·5	+ 0·4	3	− 9	4	−15	39	− 21	8	− 5
	1. SCOTLAND EAST	3	1	5 less	24	− 3	2·1	− 2·4	9	− 7	14	−11	75	+ 2	20	+ 1
	2. ENGLAND, N.E.	1	less than ½	4 less	18	− 8	1·4	− 1·7	6	− 9	9	−14	62	− 11	15	− 3
	3 ENGLAND, EAST	2	1	4 less	21	− 6	1·8	− 1·4	19	+ 2	29	+ 4	76	− 12	18	− 3
	4. MIDLAND COUNTIES	1	less than ½	5 less	18	− 8	1·3	− 2·5	15	− 1	23	0	66	− 15	16	− 4
	5. ENGLAND, SOUTH	2	less than ½	5 less	17	− 9	1·3	− 3·0	16	− 1	24	− 1	65	− 23	15	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	7 less	30	− 2	5·0	− 3·7	9	− 5	13	− 8	47	− 21	12	− 5
	7. ENGLAND, N.W.	3	2	4 less	23	− 6	2·9	− 1·9	11	0	17	0	41	− 16	14	− 4
	8. ENGLAND, S.W.	1	less than ½	8 less	20	−10	2·3	− 3·7	21	+ 2	31	+ 3	82	− 16	19	− 4
	9. IRELAND, NORTH	2	1	6 less	26	− 7	3·4	− 2·3	8	− 7	12	−11	59	− 21	15	− 5
	10. IRELAND, SOUTH	0	—	8 less	21	−10	3·1	− 3·2	23	+ 6	34	+ 9	75	− 22	18	− 5
	—CHANNEL ISLANDS	1	1	6 less	22	−11	1·9	− 3·4	35	+14	51	+21	103	− 12	23	− 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was fine and dry over the Kingdom as a whole, but some fog or haze was experienced at times. In the extreme north and north-west of Scotland, however, rain was rather frequent, and at times heavy. Thunder and lightning occurred at Gilcrux (near Maryport) on the 10th.

Temperature was much above the mean, the excess ranging from 3° in the Channel Islands and Ireland S., to 7° in Scotland N. and W., and in England N.E., and to 8° in Scotland E. The highest of the maxima were recorded either on the 11th or 12th, when they ranged from 59° in the Channel Islands and England S.W., and 58° in England S., Scotland W., and Ireland S., to 51° in England N.W. The lowest of the minima were registered on rather irregular dates, and varied from 27° in the Midland counties and England S.W., to 34° in Scotland E. and the Channel Islands, and to 37° in England N.E.

Rainfall was considerably more than the mean in Scotland N., but much less in all other districts. Over the greater part of England and Ireland the fall was scarcely appreciable, but at many stations measurable quantities of water were deposited in the gauge by the humid fogs which prevailed at intervals.

Bright Sunshine was more prevalent generally than during the preceding week, but was, as a whole, below the mean value. The percentage of the possible duration ranged from only 4 in Scotland N., 9 in England N.E., and 12 in Ireland N., to 29 in England E., 34 in Ireland S., and 51 in the Channel Islands.

Barometer and Wind.—During the earlier half of the week a large anticyclone extended from the southward to the southern parts of our Islands, while extensive depressions were observed to the northward of Scotland moving eastwards to Scandinavia. South-Westerly to Westerly winds were consequently general over the United Kingdom, and were, as a rule, light to moderate in force. By Thursday, however, the anticyclone had extended northwards over the whole Kingdom, and although it receded southwards somewhat on the following day, it again covered the entire country by the end of the week. With this change in the distribution the winds became very light in force and variable in direction.

* This value has been altered slightly owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
2. SCOTLAND, N.	Sumburgh Head‡ (Shetland)	50	32	47·3	39·3	43·3	+ 5·1	20	8	7	1·09	+0·31	*	*	*	*
	Stornoway	52	40	49·6	41·6	45·6	+ 6·8	27	1	5	0·56	−0·42	4·9	−10·1	8	−15
	Wick	55	36	49·7	40·0	44·9	+ 7·1	29	6	4	0·15	−0·38	*	*	*	*
	Glencarron (S)	49	36	46·6	40·4	43·5	+ 6·3	17	4	5	3·31	+1·49	*	*	*	*
	Fort Augustus (S)	51	36	49·7	41·7	45·7	+ 7·4	27	1	5	2·27	+1·29	1·7	− 7·3	3	−11
	Fort William (S)	51	38	48·4	42·8	45·6	+ 6·4	25	0	4	3·75	+1·77	0·9	−12·1	1	−19
1. SCOTLAND, E.	Nairn	56	36	51·6	40·1	45·9	+ 8·1	35	5	5	0·17	−0·23	*	*	*	*
	Aberdeen	54	38	50·1	41·9	46·0	+ 8·0	28	0	2	0·10	−0·48	10·6	− 7·3	17	−10
	Braemar (S)	49	34	46·7	39·6	43·2	+ 8·4	18	7	3	0·07	−0·65	13·3†	− 3·0†	21†	− 6†
	Ochtertyre (S)	53	36	50·3	40·0	45·2	+ 8·2	31	6	3	0·18	−0·77	*	*	*	*
	Leith	56	39	51·3	42·3	46·8	+ 7·1	34	0	1	0·02	−0·38	*	*	*	*
	Marchmont (S)	51	36	47·6	39·4	43·5	+ 6·5	21	7	1	0·02	−0·59	4·5	−11·6	7	−18
2. ENGLAND, N.E.	Alnwick Castle	54	39	49·4	41·7	45·6	+ 7·3	26	1	2	0·06	−0·48	*	*	*	*
	Durham	55	37	49·7	40·3	45·0	+ 7·0	28	5	0	0·01‡	−0·41	6·0	− 9·8	9	−16
	Shields	55	39	49·7	42·1	45·9	+ 6·7	27	0	0	—	−0·40	*	*	*	*
	Scarborough (M)	53	38	49·3	41·4	45·4	+ 6·3	26	2	1	0·04	−0·41	*	*	*	*
	York	54	37	50·4	40·9	45·7	+ 6·9	31	3	0	—	−0·41	4·6	− 9·4	7	−14
	Spurn Head	52	38	47·3	39·7	43·5	+ 4·6	20	6	1	0·01	−0·33	*	*	*	*
3. ENGLAND, E.	Hillington (M)	53	31	48·8	35·9	42·4	+ 4·1	28	17	3	0·05	−0·41	18·7	+ 1·7	28	+ 3
	Yarmouth	52	34	47·4	36·3	41·9	+ 3·7	15	24	2	0·03	−0·42	*	*	*	*
	Geldeston	56	33	50·8	36·4	43·6	+ 4·8	35	16	3	0·07	−0·32	20·6	+ 3·1	31	+ 5
	Cambridge	56	31	50·4	35·0	42·7	+ 3·9	34	20	0	0·02‡	−0·36	20·2	+ 3·3	30	+ 5
	Rothamsted	56	30	49·0	35·6	42·3	+ 4·3	29	18	2	0·06	−0·44	17·9	+ 1·9	27	+ 3
4. MIDLAND COUNTIES	Bawtry (Wesley Hall)	54	36	50·1	40·1	45·1	+ 6·3	30	5	1	0·01	−0·39	*	*	*	*
	Loughborough	55	37	51·4	39·4	45·4	+ 6·3	35	7	0	—	−0·44	*	*	*	*
	Stamford (Ketton Hall)	54	33	49·3	37·1	43·2	+ 4·5	29	14	1	0·03	−0·40	*	*	*	*
	Cheadle (M)	53	34	49·8	37·8	43·8	+ 6·0	30	12	2	0·14	−0·46	*	*	*	*
	Solihull	53	33	48·7	37·9	43·2	+ 4·5	26	11	3	0·10	?	*	*	*	*
	Churchstoke (M)	53	28	50·0	37·0	43·5	+ 4·7	32	14	2	0·03	−0·57	16·0	0·0	24	0
	Hereford (M)	56	27	52·2	35·7	44·5	+ 4·7	40	15	1	0·04	−0·48	*	*	*	*
	Cirencester	54	29	49·6	36·3	43·0	+ 4·9	31	16	0	0·02‡	−0·58	20·3	+ 2·7	30	+ 4
	Oxford	55	35	49·9	38·6	44·3	+ 4·6	30	10	1	0·01	−0·45	16·6	+ 0·3	25	+ 2
5. ENGLAND, S.	London	57	34	50·0	36·6	43·3	+ 3·3	32	15	2	0·36	−0·39	12·1†	+ 3·1†	18†	+ 4†
	North Foreland	57	36	49·0	37·7	43·4	+ 3·9	28	12	1	0·04	?	*	*	*	*
	Strathfield Turgiss (M)	56	29	50·3	24·9	42·6	+ 3·3	34	20	1	0·03	−0·47	*	*	*	*
	Dungeness	49	32	47·9	36·4	42·2	+ 2·4	25	16	2	0·05	−0·45	*	*	*	*
	Hastings (St. Leonards)	50	38	49·3	39·7	44·5	+ 4·5	27	6	1	0·02	−0·51	23·5	+ 3·5	35	+ 6
	Southampton	58	36	51·3	39·6	45·5	+ 4·6	35	7	2	0·05	−0·59	13·5	− 4·8	20	− 7
	Hurst Castle	49	38	48·7	41·0	44·9	+ 4·0	25	3	1	0·04	−0·51	*	*	*	*
	Stowell (M)	52	33	49·3	36·9	43·1	+ 3·2	29	14	4	0·05	−0·65	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sumart)	58	36	52·7	43·2	48·0	+ 8·0	42	0	5	1·74	−0·02	*	*	*	*
	Glasgow	51	39	48·8	43·1	46·9	+ 7·0	28	0	4	0·21	−0·64	4·7	− 5·7	7	− 9
	Ardrossan	51	38	49·0	42·4	45·7	+ 5·4	26	0	5	0·12	−0·68	*	*	*	*
	Glenlee (S)	51	33	49·8	40·9	45·4	+ 7·5	28	3	3	0·12	−1·15	*	*	*	*
	Douglas (Isle of Man)	51	37	49·1	42·4	45·8	+ 5·0	27	0	3	0·09	−0·78	12·2	− 4·8	13	− 7
7. ENGLAND, N.W.	Stonyhurst	51	36	47·6	39·8	43·7	+ 4·9	21	6	2	0·37	−0·51	9·2	− 4·8	14	− 7
	Blackpool (M)	51	31	48·6	39·4	44·0	+ 4·7	25	7	2	0·15	−0·44	16·6	+ 2·1	25	+ 3
	Manchester (Prestwich)	52	30	49·5	36·1	42·8	+ 4·0	30	17	4	0·20	−0·38	7·6	?	12	?
	Liverpoo Obsy. (Bidston)	54	38	50·0	40·7	45·4	+ 5·4	29	4	2	0·07	−0·37	*	*	*	*
	Llandudno (M)	54	36	50·2	42·9	46·6	+ 4·8	32	0	2	0·27	−0·27	18·8	+ 2·5	28	+ 3
	Holyhead	52	43	49·3	44·3	46·8	+ 4·8	34	0	3	0·07	−0·56	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	35	50·7	40·7	45·7	+ 5·2	31	4	2	0·04	−0·98	*	*	*	*
	Pembroke	50	42	48·0	44·3	46·2	+ 4·0	29	0	1	0·02	−0·88	17·3	− 1·7	26	− 2
	Bristol (Montpelier)	54	34	51·4	40·5	46·0	+ 5·5	34	4	1	0·01	−0·66	*	*	*	*
	Arlington (N. Devon)	54	32	51·0	33·3	43·7	+ 2·9	36	16	0	—	−0·97	*	*	*	*
	Cullompton (M)	59	27	53·1	35·4	44·3	+ 3·4	44	18	3	0·06	−0·64	17·6	+ 0·8	26	+ 1
	Falmouth	54	34	51·2	41·4	46·3	+ 2·5	33	2	1	0·02	−0·95	26·2	+ 6·5	39	+11
	Plymouth	54	33	50·6	41·4	46·0	+ 3·4	31	2	2	0·03	−0·71	13·5	− 6·2	20	− 8
	Prawle Point	55	36	50·1	41·3	45·7	+ 3·5	29	2	1	0·04	−0·46	*	*	*	*
9. IRELAND, N.	Malin Head	51	41	48·6	42·9	45·8	+ 3·3	27	0	2	0·40	?	*	*	*	*
	Londonderry	54	40	50·3	43·6	47·0	+ 6·0	35	0	2	0·18	−0·57	*	*	*	*
	Edenfel (Omagh)	54	36	49·6	41·1	45·4	+ 6·5	28	3	2	0·05	−0·59	*	*	*	*
	Belmullet	52	42	50·3	45·1	47·7	+ 4·6	40	0	1	0·03	−1·05	*	*	*	*
	Markree Castle	54	31	49·3	40·8	45·1	+ 4·9	27	3	0	—	−0·68	7·6	− 7·6	12	−11
	Brockeborough												*	*	*	*
	Armagh	54	33	49·7	41·1	45·4	+ 5·4	28	3	3	0·05	−0·50	7·4	− 7·5	11	−13
	Donaghadee	55	38	50·4	41·3	45·9	+ 4·9	30	2	3	0·10	−0·50	*	*	*	*
	Edgeworthstown	54	31	48·7	38·3	43·5	+ 4·3	26	10	0	—	−0·65	*	*	*	*
10. IRELAND, S.	Dublin	56	33	50·9	41·5	46·2	+ 3·9	32	1	0	—	−0·50	20·8	+ 3·4	31	+ 6
	Parsonstown	57	32	49·4	39·0	44·2	+ 3·2	28	8	0	—	−0·58	17·5	+ 1·4	26	+ 1
	Kilkenny	56	34	52·0	35·7	43·9	+ 2·3	40	18	0	—	−0·68	*	*	*	*
	Roche's Point	55	38	51·6	43·3	47·0	+ 3·2	35	0	1	0·01	−1·07	*	*	*	*
	Valencia	55	32	51·7	40·6	46·2	+ 1·2	35	4	1	0·03	−1·17	29·4	+11·9	44	+18
	Killarney	58	30	52·3	36·9	44·6	+ 1·4	40	14	0	—	?	*	*	*	*
	Foynes	56	29	50·8	38·8	44·8	+ 2·2	33	9	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	41	53·4	44·6	49·0	+ 3·2	49	0	1	0·05	−0·65	33·3	?	49	?
	Jersey	59	34	53·4	39·1	46·3	+ 3·4	42	8	1	0·14	−0·48	36·1	+14·0	52	+19

Stations marked (M) are in connection with the Royal Meteorological Society, and those marked (S) with the Scottish Meteorological Society.

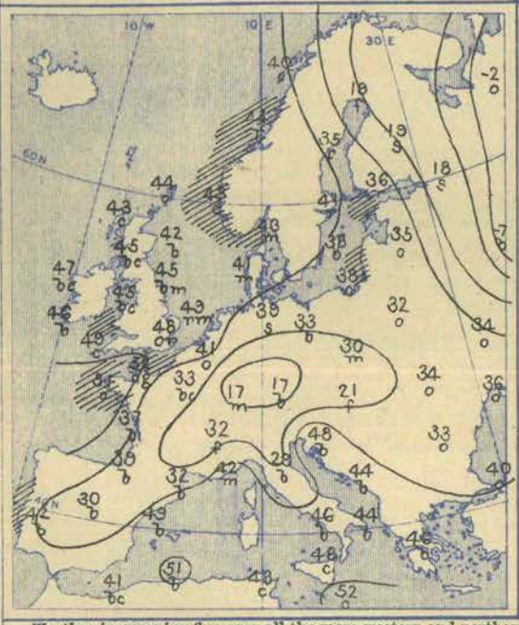
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

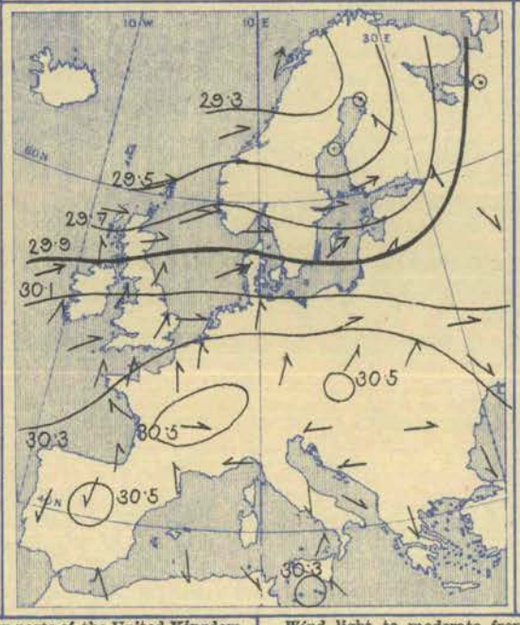
‡ Wet fog.

Sunday, 9th February.

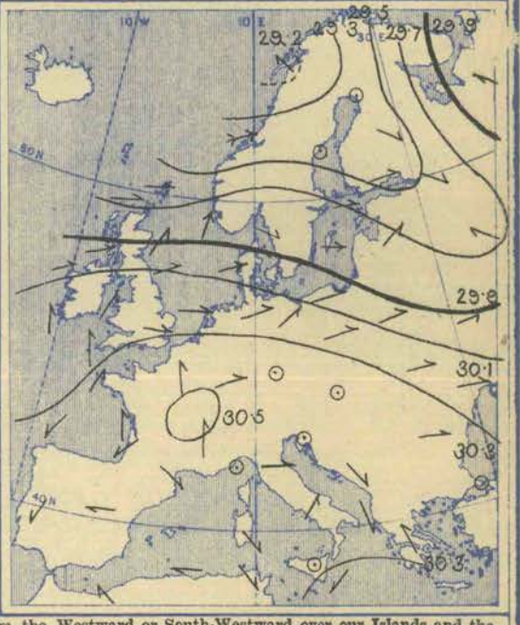
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over all the more western and northern parts of the United Kingdom, but dull and rainy in the south and south-east of England. Fine over France and southern Europe generally, cloudy or dull in most other parts of the Continent, with rain over the Gulf of Finland and at Christiansund, Stockholm, and the Helder, and snow at Kuopio and St. Petersburg. Sky clearing later over England and Ireland, as well as in Denmark and the south of Scandinavia, but rain falling in the north of Scotland and the west of Norway.

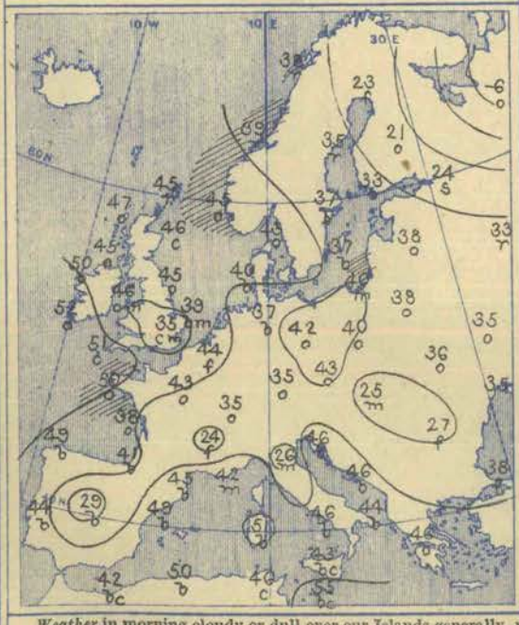
Temperature risen quickly in Finland, and to a less extent over France, the Netherlands, and the south-east of England, fallen or changed irregularly elsewhere. Morning readings highest, (1) 52° at Malta, 51° at Algiers, and 49° at Barcelona; (2) 52° at Jersey, 51° at Brest and Lorient, and 50° at the North Foreland. Lowest, – 7° Fahr. at Moscow, – 2° at Archangel, + 6° at Kharkov, and 18° at St. Petersburg; considerably below the freezing point over south Germany and central France. Rising during day to 50° and upwards over the United Kingdom generally, and reaching 55° at Loughborough and Scilly; exceeding 60° over Spain and the southern parts of France and Italy.

Wind light to moderate from the Westward or South-Westward over our Islands and the northern and central parts of the Continent generally, but Easterly or South-Easterly in Finland. Light from the Northward or North-Westward in Italy, Greece, Turkey, and the south of Russia; North-Easterly or Easterly in Spain; South-Easterly or Southerly in the west of France. Subsequently increasing to a gale from the South-Westward in the west of Norway; no important change occurring elsewhere.

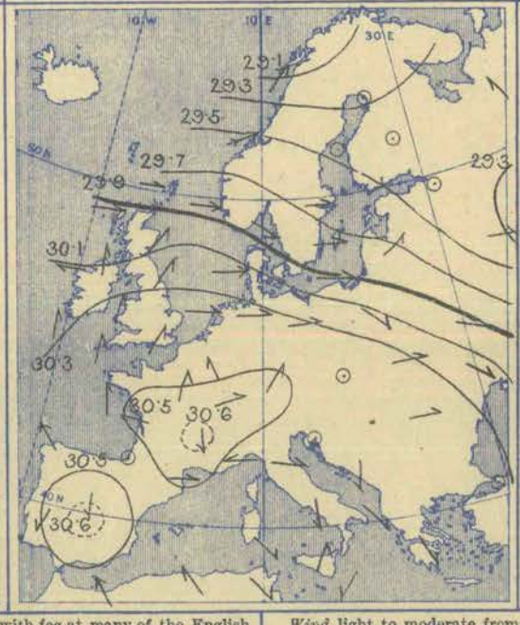
Barometer highest, 30·5 ins. and upwards over the central parts of France and Spain; 30·2 ins. and upwards in an anticyclone embracing the whole of central and southern Europe, and extending over the extreme south of England. Lowest, 29·2 ins. and less in a depression lying off the north-west of Norway. Anticyclone spreading northwards during day; barometer rising steadily over our Islands and their immediate neighbourhood.

Monday, 10th February.

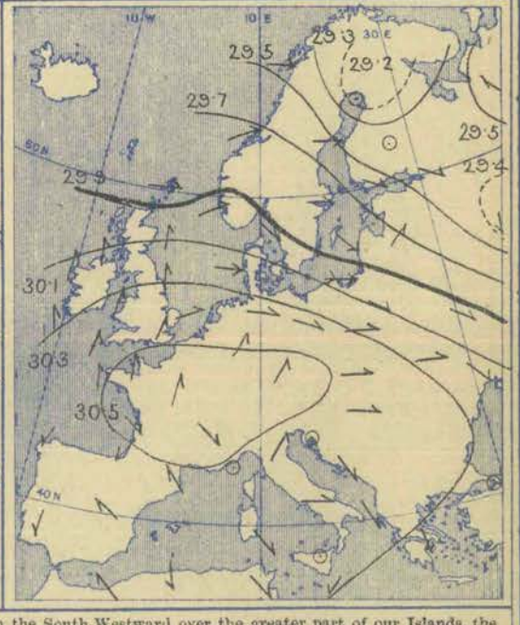
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over our Islands generally, with fog at many of the English stations, but fine on some parts of our east and south-east coasts. Fine over southern Europe generally, as well as in Sweden, Denmark, and Holland, but dull in most other parts of the Continent, with rain in the west of Norway, as well as at Moscow, and with snow at St. Petersburg. A little rain falling later in the west and north of Scotland; sky clearing in the west of France.

Temperature fallen several degrees over England, and slightly at most of the Scandinavian stations, but risen in most other countries. Morning readings highest, (1) 55° at Malta, 51° at Cagliari, and 50° at Algiers; (2) 52° at Valencia, and 51° at Roche's Point and Scilly; above 45° in the west and extreme north of our Islands generally. Lowest, (1) – 6° Fahr. at Archangel, + 21° at Kuopio, 23° at Haparanda, and 24° at St. Petersburg; (2) 24° at Lyons, and 26° at Florence; (3) 25° at Buda Pesth, and 27° at Hermanstadt. Rising during day to between 50° and 53° in nearly all parts of the United Kingdom, and reaching 57° at Scilly; exceeding 60° over Spain, southern Italy, and the extreme south of France.

Wind light to moderate from the South-Westward over the greater part of our Islands, the Netherlands, the north of France, and the west and south of Germany. Moderate from the Westward in the extreme north of Scotland. Strong from the same quarter over Norway, Denmark, and the Baltic, with a gale at Christiansund; calm over Finland and the northern parts of Sweden; North-Westerly over Poland and the south of Russia; Northerly in Italy and central Spain; Easterly in the west and south of France. No important change occurring over western Europe during day.

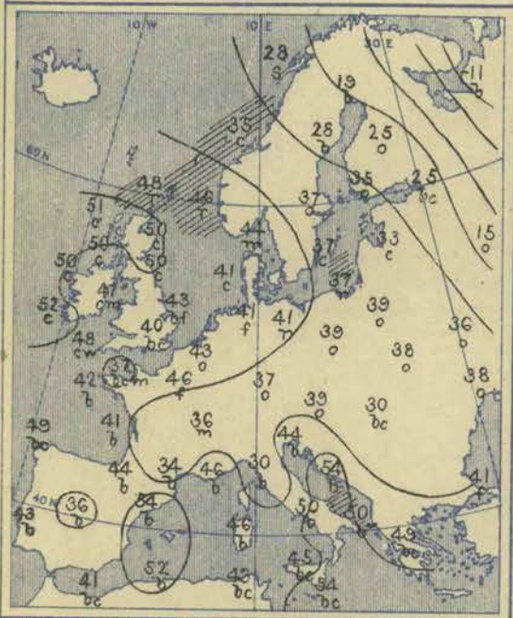
Barometer highest, 30·5 ins. to 30·6 ins. over France and south Germany, and also in a separate area over Spain; 30·3 ins. and upwards in an anticyclone embracing the whole of central and southern Europe, and spreading northward over England. Lowest, 29·1 ins. and less in a depression off the extreme north-west of Norway; 29·3 ins. and less in another disturbance over central Russia. No important change occurring over western Europe during day, but depression in far north moving eastwards.

Wyman & Sons, Lt.Lith. 63, Carter Lane.

Tuesday, 11th February.

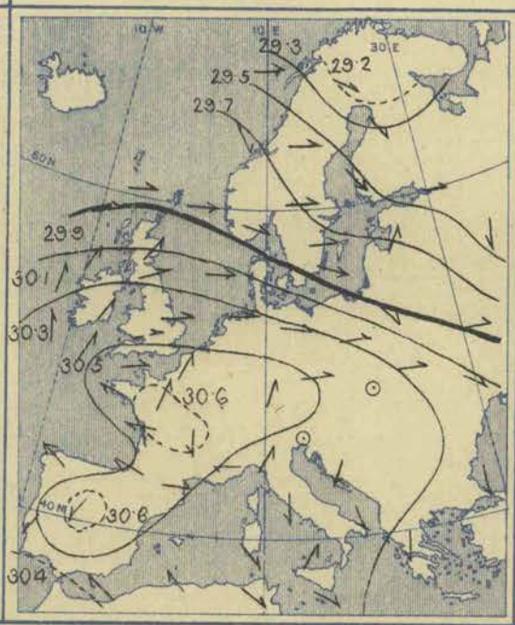
Temperature and Weather.

8 a.m.

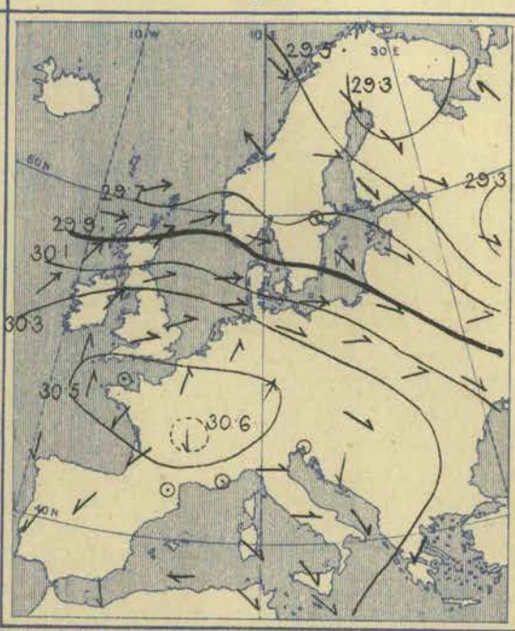


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England, France, and southern Europe, as well as in the north of Sweden, but with fog or mist in places. Cloudy or dull in Ireland, Scotland, and Norway, with rain at Sumburgh Head and Skudesnaes, and snow at Bodö; dull also over Russia and Germany, with rain at Berlin and Neufahrwasser. Rain falling later over Scotland and the north of Ireland, and snow or rain at many of the Scandinavian and Russian stations. Bright aurora seen at Wick.

Temperature risen over our Islands and the greater part of France and southern Europe, fallen in the north of Scandinavia, changed irregularly elsewhere. Morning readings highest, (1) 54° at Barcelona, San Fernando, and Malta, and 52° at Algiers; (2) 52° at Valencia (Ireland), and 51° at Stornoway, Nairn, Leith, and Roche's Point. Lowest, – 11° Fahr. at Archangel, + 15° at Moscow, 19° at Haparanda, and 23° at Uleaborg. Rising during day to 50° and upwards over the United Kingdom generally, and to 55° and upwards at several of our western and northern stations. Exceeding 60° over Spain and the southern parts of France and Italy, and reaching 70° at Oporto.

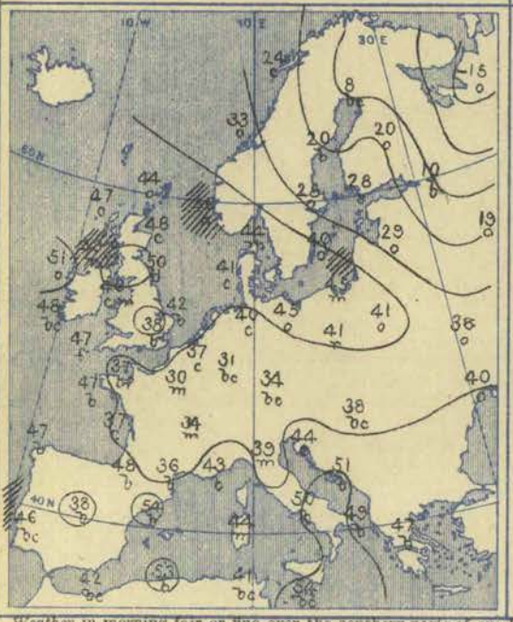
Wind light to moderate from the South-Westward over our Islands, the Netherlands, and the north of France. Moderate to strong from the Westward or North-Westward over northern, eastern, and central Europe generally; light to moderate from the Northward in Italy, from the North-Eastward in Spain, and from the Eastward in the west of France; variable in the south of France. Subsequently increasing to a strong breeze from West or South-West on many parts of our northern coasts. No important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards over the central parts of France and Spain; 30·2 ins. and upwards in an anticyclone embracing the whole of central and southern Europe, and extending northwards over England and Ireland. Lowest, 29·2 ins. and less in a depression over Lapland. Depression subsequently moving eastwards, but new disturbance advancing towards the Norwegian coasts from the Atlantic.

Wednesday, 12th February.

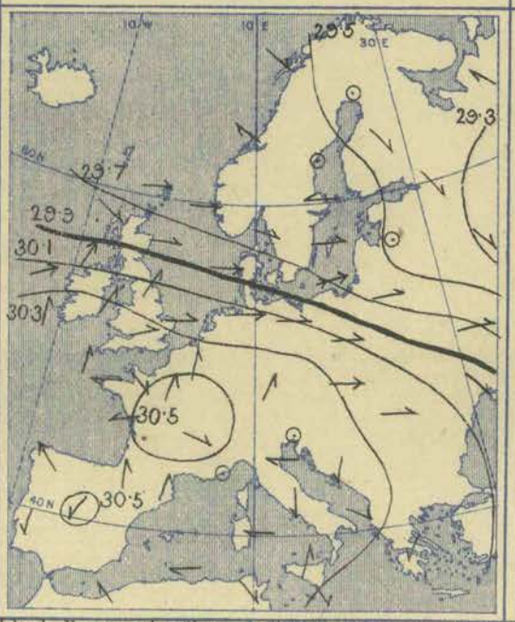
Temperature and Weather.

8 a.m.

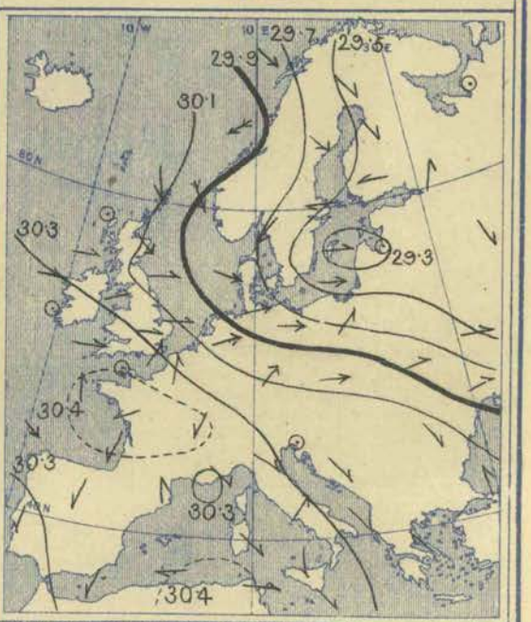


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the southern parts of our Islands, France, and southern Europe generally, but with fog or mist in places. Dull over the northern parts of our Islands and the Continent as a whole, with rain on our extreme north-west coasts, as well as at Copenhagen, Breslau, and Lemberg; fine and bright in the north of Sweden. A little rain falling later in many parts of north-western Europe, and snow or sleet in the south of Sweden. Aurora seen at Aberdeen and Skudesnaes.

Temperature fallen in our Islands and France, as well as in the northern parts of Russia and Scandinavia, risen or changed irregularly elsewhere. Morning readings highest, (1) 54° at Barcelona and Malta, and 53° at Algiers; (2) 51° at Leith and Belmullet, and 50° at Shields, Ardrossan, and Donaghadee. Lowest, – 15° Fahr. at Archangel, + 8° at Haparanda, 10° at St. Petersburg, and 14° at Uleaborg; slightly below the freezing point over western Germany and central France. Rising during day to 50° and upwards in nearly all parts of the United Kingdom, and to 55° and upwards at many of our southern stations; exceeding 60° over the Spanish Peninsula and the extreme south of France, and reaching 73° at Oporto.

Wind Westerly or South-Westerly over our Islands, Denmark, and central Europe generally, and strong in force at some of the more northern stations; calm or variable over the northern parts of Scandinavia and Russia. Light from the North-Westward over the south of Russia, and from the same quarter or from North at most of the Italian stations. Variable in the south of France; light from the Eastward over the Bay of Biscay; fresh or strong from the South-Eastward over the western parts of the Spanish Peninsula. Subsequently veering to the North-Westward or Northward over Scotland and the eastern shores of the North Sea, and increasing to a gale on the Norwegian coasts.

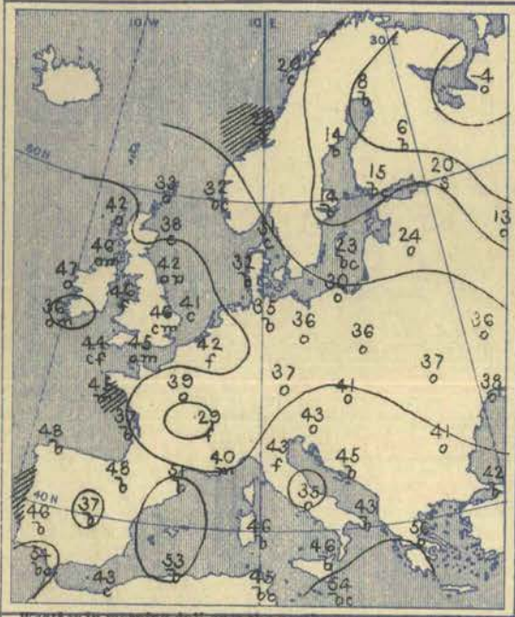
Barometer highest, 30·5 ins. and upwards over the central parts of France and Spain; 30·1 ins. and upwards in an anticyclone embracing the whole of central and southern Europe, and extending northwards over Ireland and England. Lowest, 29·3 ins. and less in a large shallow depression over central Russia; 29·5 ins. and less in an elongated area stretching from the westward over the southern parts of Scandinavia. Latter system moving eastwards later, and barometer rising quickly over Norway and the north of Scotland.

Wyman & Sons, Lt., Lith. 63, Carter Lane.

Thursday, 13th February.

Temperature and Weather.

8 a.m.

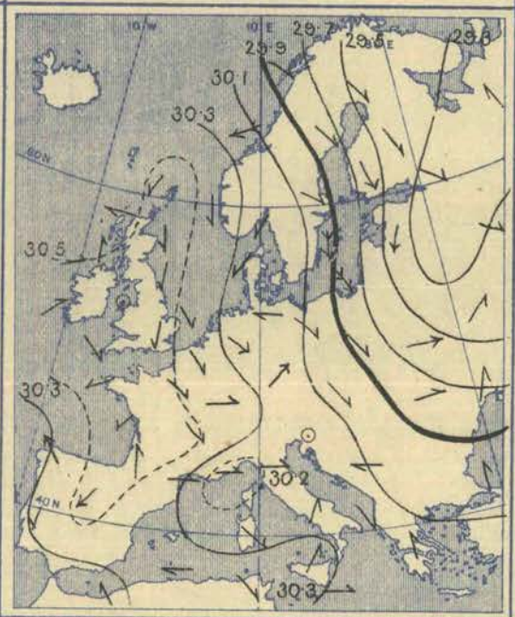


Weather in morning dull over the northern parts of our Islands, and also over eastern and central Europe generally. Fair or fine in nearly all other localities, but with mist or fog at many of the English and French stations. Snow reported at Christiansund and St Petersburg. Slight rain falling later at a few of our own western and northern stations, as well as in some parts of Holland and Germany, and snow in the west of Norway and central Russia.

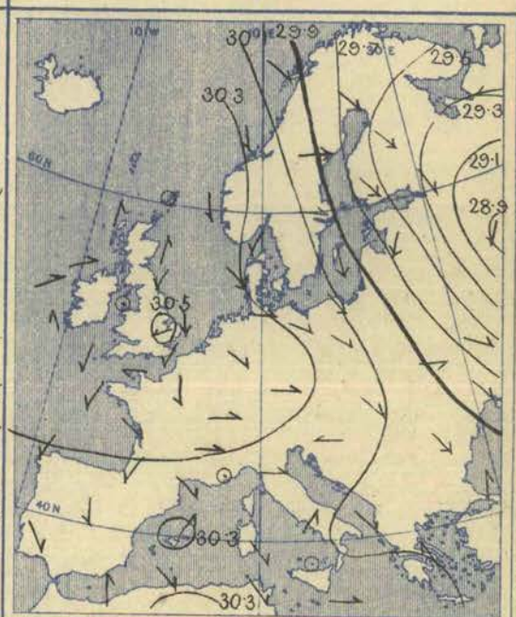
Temperature risen in the south-east of England, as well as at some of the French, German, and Italian stations, fallen elsewhere—briskly over northern Europe. Morning readings highest, (1) 55° at Barcelona, and 54° at San Fernando, Leghorn, and Malta; (2) 47° at Belmullet, and 46° at Malin Head, Holyhead, and in London. Lowest, – 4° Fahr. at Archangel, + 4° at Uleaborg, 6° at Kuopio, and 8° at Haparanda; below the freezing point over northern Europe generally, and also over central France. Daily maxima below 45° at some of our own northern and eastern stations, and below 50° in all places excepting Jersey and Prawle Point. Thermometer exceeding 60° over the Spanish Peninsula and the southern parts of France and Italy, and reaching 73° at Oporto.

Barometer and Wind.

8 a.m.



6 p.m.



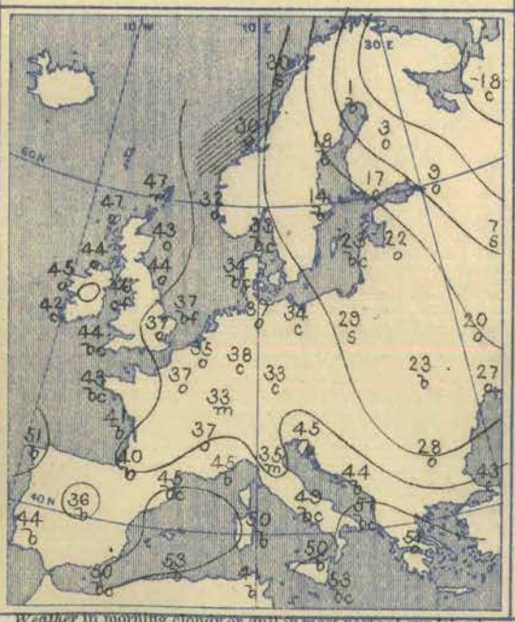
Wind light from the Northward or North-Westward over the greater part of our Islands, and strong from the same quarters over northern Europe generally, with a gale at Wisby and Neufahrwasser; Westerly or South-Westerly over Austria and the southern parts of Russia and Germany. Light from the South-Westward in the west of Ireland, and from the Eastward in the north of Scotland. Easterly or North-Easterly over the Spanish Peninsula and the Bay of Biscay; variable in Italy and the south of France. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards over France, central Spain, and all but the extreme north-western parts of our Islands; 30·2 ins. and upwards in an anticyclone covering the entire western half of Europe. Lowest, 29·3 ins. and less in a large depression over western and northern Russia. No important change occurring over western Europe during day, but Russian depression moving south-eastwards and becoming much deeper.

Friday, 14th February.

Temperature and Weather.

8 a.m.

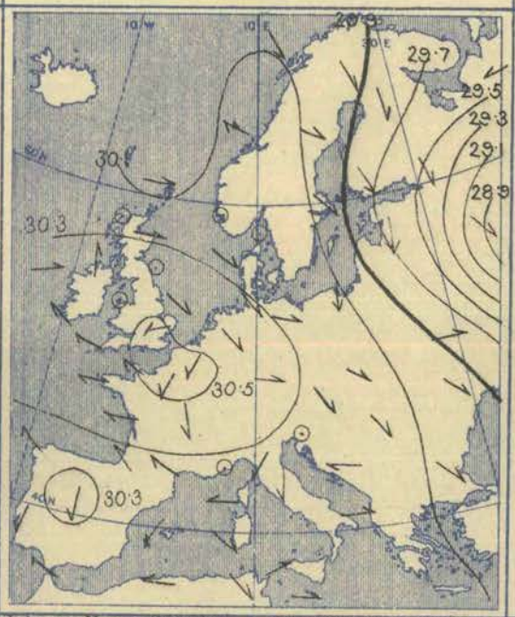


Weather in morning cloudy or dull in most parts of our Islands, and also over Norway, Germany, and the greater part of Russia. Fog or mist reported at some of the English stations, rain at Sumburgh Head, and snow at Bodö, Neufahrwasser, Breslau, and Moscow. Fine in Sweden and Denmark, and also over southern Europe generally. Sky clearing later on many parts of our south-west coasts; a little rain falling over the Netherlands, and snow in Denmark, Germany, Russia, and the south of Scandinavia.

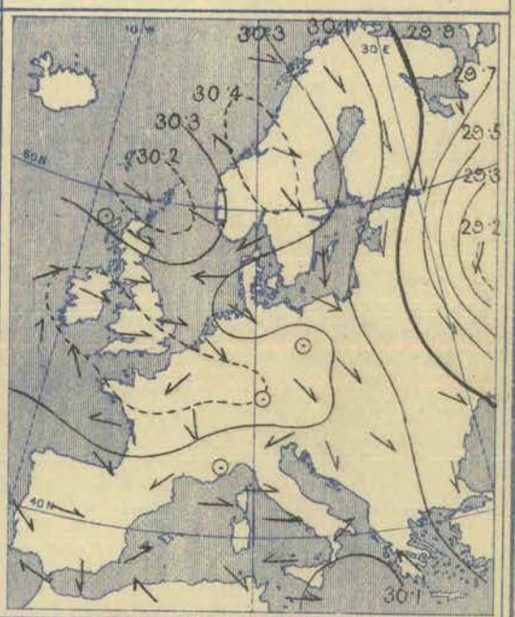
Temperature risen over Scandinavia and the north of our Islands, as well as on our south-west coasts, fallen elsewhere. Morning readings highest, (1) 53° at Barcelona, San Fernando, Algiers, and Malta; (2) 47° at Sumburgh Head and Stornoway, and 46° at Leith and Holyhead. Lowest, – 18° Fahr. at Archangel, + 1° at Haparanda, and 3° at Uleaborg and Kuopio; considerably below the freezing point over Sweden and Russia generally, and slightly below it in many parts of central Europe. Rising during day to 50° or more at several of our own western and northern stations, but remaining below 45° in the east and south-east of England. Exceeding 60° on the Spanish coasts, and also in the extreme southern parts of France and Italy.

Barometer and Wind.

8 a.m.



6 p.m.



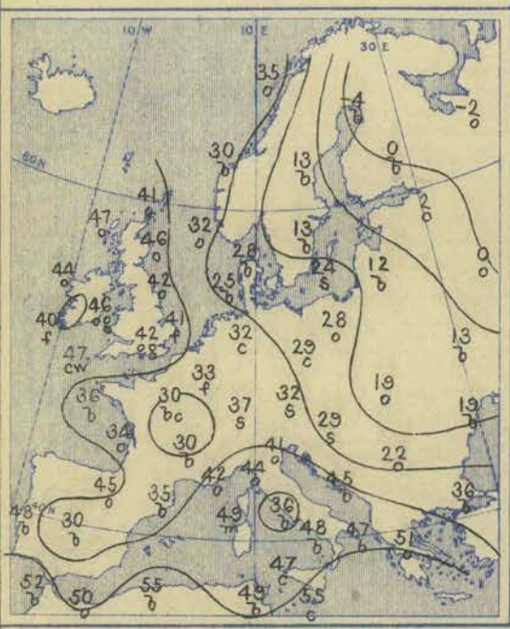
Wind light to moderate from the Eastward or South-Eastward over the Bay of Biscay and our south-west coasts; Westerly or South-Westerly over the northern parts of our Islands; variable in the south-east of England. Northerly or North-Westerly in most other parts of Europe, and strong to a gale at some of the Baltic stations. Varying between North and East over the Spanish Peninsula and the central parts of France. Light Westerly breezes setting in later over the south-east of England and also over Italy.

Barometer highest, 30·5 ins. and upwards over Belgium, the north-east of France, and the south-east of England; 30·2 ins. and upwards in an anticyclone covering nearly the whole of western and southern Europe. Lowest, 28·9 ins. and less in a deep depression over central Russia; 30·1 ins. and less in a shallow disturbance lying to the northward of the Shetlands. Russian depression subsequently moving eastwards; disturbance to northward of our Islands gradually filling up.

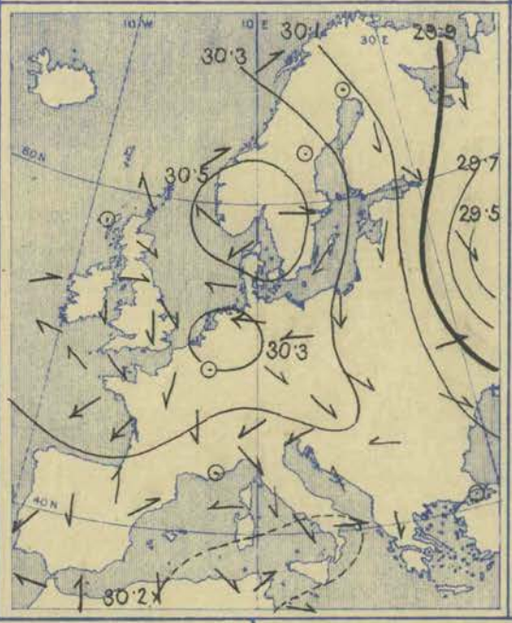
Wyman & Sons, Lth 68, Carter Lane

Saturday, 15th February.

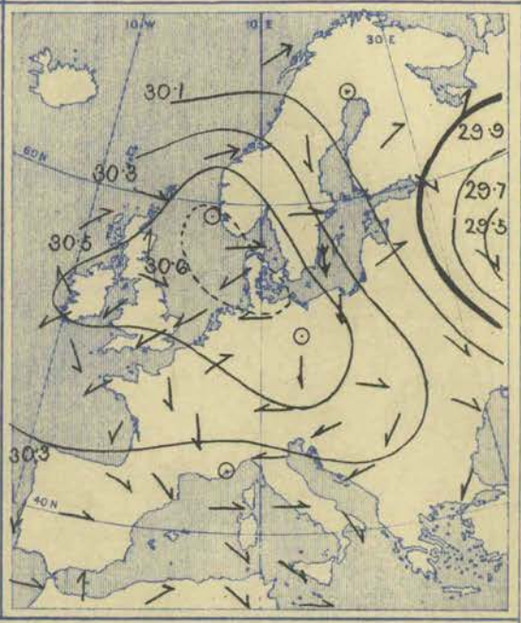
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands, with fog or mist in places. Fine in most of the Continental countries, but dull in Germany, Austria, and central Russia, with rain at Münster, and snow at Prague, Munich, and Vienna. No important change occurring during day, but weather becoming dull at several of the French stations. Slight rain falling in the Shetlands, and a larger quantity at Bodö.

Temperature fallen in most places. Morning readings highest, (1) 55° at Algiers and Malta, and 52° at Barcelona and San Fernando; (2) 47° at Scilly; (3) 47° at Stornoway and Nairn, and 46° at Aberdeen. Lowest, - 4° Fahr. at Uleaborg, - 2° at Archangel, 0° zero at Kuopio and Moscow, and 1° at Haparanda; considerably below the freezing point over Sweden and Russia generally, and slightly below it in many parts of central Europe. Rising during day to 45° and upwards over the United Kingdom generally, and exceeding 50° at some of our western and northern stations. Exceeding 60° over the Spanish Peninsula, Sicily, and the extreme south of France, and reaching 72° at Oporto.

Wind Easterly or North-Easterly over Spain, France, and the extreme south-west of our Islands, but Westerly in the north of Ireland, and calm in Scotland. Light from the North-Westward over England; Easterly or North-Easterly in Denmark; South-Westerly in the west of Norway. Northerly or North-Westerly over Russia, eastern Germany, Austria, and Italy. Subsequently shifting to the Eastward or North-Eastward over England; no decided change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over the north of Denmark and the southern parts of Scandinavia; 30·2 ins. and upwards in an anticyclone covering western and central Europe generally. Lowest, 29·5 ins. and less in a depression over central Russia; 30·3 ins. and upwards in a very shallow disturbance over north-western Germany. Latter system subsequently disappearing, but new depression approaching the north-west of Norway from the westward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week a large anticyclone covered the whole of central and southern Europe, while large depressions continued to travel eastwards across the northern parts of Scandinavia and Russia. In the former regions the winds were consequently light and rather variable, and the weather fair, but with intermittent fogs in the more central countries, and sharp frost over south Germany and the east of France. Over our Islands the wind was South-Westerly, and the weather changeable and very mild, while over northern Europe strong Westerly (South-West to North-West) breezes were reported, with frequent falls of rain or snow, and considerable fluctuations in temperature.

Towards the middle of the week, however, the anticyclone spread northwards over the whole of western Europe, and by the end of the period its influence had extended over the northern countries also. Light winds and fair, dry weather therefore set in generally, but a good deal of cloud and mist was reported over our Islands, while slight rain fell in the extreme north of Scotland. After the 12th a gradual decrease of temperature took place over the United Kingdom, but the readings were at no time appreciably below the average for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 38.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	7·2	- 6·3	11	- 9	EASTBOURNE	20·0	+ 2·6	29	+ 14
OSWALDKIRK (Yorkshire)	6·8	- 7·9	10	- 12	MANCHESTER (Oldham Road)	3·2*	?	5*	?
WORKSOP	9·1	- 5·1	14	- 7	TENBY	22·0*	+ 2·0	33*	+ 3
THURCASTON (Leicestershire)	14·2	+ 0·1	21	0	NEWQUAY	30·1	+11·1	44	+ 16
MARGATE	26·2	+ 9·7	39	+ 15	TORQUAY	21·1*	+ 3·9	31*	+ 6
WESTBOURNE (Sussex)	10·8*	- 7·7	16*	- 11	ARLEY COTTAGE (County Cavan)	8·9*	- 6·0	13*	- 11
BRIGHTON	8·6	- 9·4	13	- 14	GUERNSEY	36·3*	+15·3	53*	+ 22

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 8.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 22ND, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 44.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	27	46·7	37·2	42·0	4 above	13	+ 6	13	−22	110	+ 58	139	−187
	1. SCOTLAND, EAST	53	22	45·9	34·5	40·2	3 above	11	+ 1	29	−12	105	+ 41	209	−149
	2. ENGLAND, N.E.	51	24	42·4	34·0	38·2	1 below	1	−10	28	− 5	90	+ 31	181	−129
	3. ENGLAND, EAST	58	25	43·9	34·3	39·1	0 (average)	5	−10	28	− 9	89	+ 18	227	−128
	4. MIDLAND COUNTIES	57	25	44·4	32·7	38·6	0 (average)	7	− 6	35	− 2	118	+ 32	205	−148
	5. ENGLAND, SOUTH	56	29	46·1	36·7	41·4	1 above	11	− 5	21	− 8	117	+ 26	156	−129
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	25	45·8	36·0	41·0	1 above	11	+ 1	24	− 4	137	+ 60	108	−140
	7. ENGLAND, N.W.	53	23	45·1	34·7	39·9	0 (average)	9	− 2	28	0	136	+ 68	114	−145
	8. ENGLAND, S.W.	54	20	47·9	37·7	42·8	1 above	24	+ 6	12	−11	174	+ 54	101	−109
	9. IRELAND, NORTH	54	30	47·4	37·0	42·2	1 above	22	+ 8	14	−10	179	+ 76	90	−126
	10. IRELAND, SOUTH	55	31	49·5	39·3	44·4	2 above	28	+ 6	8	− 9	240	+ 84	65	−102
	—CHANNEL ISLANDS	54	36	50·3	41·7	46·0	2 above	29	+ 6	1	− 9	239	+ 69	28	− 68

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 44.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	3	8 less	38	− 3	9·8	− 0·4	10	− 5	14	− 7	49	− 25	9	− 6
	1. SCOTLAND EAST	3	4	2 less	27	− 4	2·5	− 2·5	13	− 5	19	− 8	88	− 4	20	0
	2. ENGLAND, N.E.	3	3	1 less	21	− 8	1·7	− 1·8	6	−11	8	−16	68	− 22	14	− 5
	3 ENGLAND, EAST	2	2	2 less	23	− 7	2·0	− 1·6	16	− 3	22	− 5	92	− 15	19	− 3
	4. MIDLAND COUNTIES	3	3	2 less	21	− 8	1·6	− 2·7	15	− 3	21	− 4	81	− 18	17	− 3
	5. ENGLAND, SOUTH	2	2	3 less	19	− 9	1·5	− 3·2	18	− 1	25	− 2	83	− 24	17	− 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	4	6 less	33	− 3	5·4	− 4·2	3	−13	5	−18	50	− 34	11	− 7
	7. ENGLAND, N.W.	3	2	3 less	26	− 6	3·1	− 2·2	9	− 6	13	− 9	50	− 22	15	− 4
	8. ENGLAND, S.W.	3	3	5 less	23	−10	2·6	− 4·1	15	− 6	21	− 9	97	− 22	20	− 4
	9. IRELAND, NORTH	1	2	5 less	27	−10	3·6	− 2·7	17	0	24	0	76	− 21	16	− 5
	10. IRELAND, SOUTH	3	4	3 less	24	−11	3·5	− 3·5	17	− 2	24	− 3	92	− 23	19	− 5
	—CHANNEL ISLANDS	3	2	4 less	25	−11	2·1	− 3·3	19	− 8	27	−11	122	− 19	23	− 4

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was again dry and mild over the Kingdom on most days, but some slight rain was experienced very generally about the middle of the period.

Temperature was rather above the mean in most districts, but only just equalled it in England E. and N.W., and the Midland counties, and was slightly below it in England N.E. The highest of the maxima were registered on the 19th over England, but on irregular dates in Ireland and Scotland; they ranged from 58° in England E., and 57° over the Midland counties, to 52° in Scotland N., and 51° in England N.E. The lowest of the minima were recorded about the middle of the week, and varied from 22° in Scotland E., and 23° in England N.W., to 31° in Ireland S., and to 36° in the Channel Islands.

Rainfall was less than the mean in all parts of the Kingdom—the deficit being greatest in Scotland N. and W.

Bright Sunshine was less than the normal very generally, the percentage of the possible duration ranging from 5 in Scotland W., 8 in England N.E., and 13 in England N.W., to 24 in Ireland, 25 in England S., and 27 in the Channel Islands.

Barometer and Wind.—At the commencement of the period the western portion of an anticyclone covered nearly the whole of our Islands, the wind being light from the Eastward in the south, and from the Westward in the north. This system, however, gradually gave way and moved eastwards, while depressions approached our western coasts from the Atlantic; the wind consequently shifted to the Southward generally, and blew strongly in the extreme west and north. On the 20th a "V shaped" secondary disturbance passed eastwards directly over the Kingdom, but by the end of the week a large anticyclone had been formed over Scandinavia, and was spreading south-westwards towards our Islands, causing moderate to fresh Easterly to South-Easterly winds in most districts, and a Southerly gale in the north-east of Scotland.

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II.—DATA from which the SUMMARY on page 43 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	37	44·4	38·6	41·5	+ 3·4	7	14	3	0·92	+0·17	*	*	*	*
	Stornoway	51	40	47·9	41·3	44·6	+ 5·7	21	2	1	0·14	−0·78	8·8	− 8·2	13	−13
	Wick ℌ	52	33	45·9	38·3	42·1	+ 1·1	16	10	2	0·30	−0·25	*	*	*	*
	Glencarron ℌ	51	28	47·2	33·2	40·2	+ 2·6	15	34	1	0·15	−1·44	*	*	*	*
	Fort Augustus ℌ	51	27	47·0	34·7	41·3	+ 2·7	17	30	2	0·08	−0·90	9·3	− 1·9	14	− 2
	Fort William ℌ	51	34	46·9	37·1	42·0	+ 2·6	14	14	3	0·38	−1·49	10·3	− 4·9	15	− 7
1. SCOTLAND, E.	Nairn	51	28	48·6	33·3	41·0	+ 2·8	18	35	2	0·03	−0·42	*	*	*	*
	Aberdeen	50	30	44·7	38·0	41·4	+ 3·2	8	16	3	0·63	+0·08	7·5	−12·5	11	−18
	Braemar ℌ	45	22	43·1	32·0	37·6	+ 2·8	3	36	3	0·36	−0·34	11·2†	− 8·0†	17†	−12†
	Ochtertyre ℌ	52	26	46·3	33·1	39·7	+ 2·3	12	34	3	0·36	−0·44	*	*	*	*
	Leith	53	28	47·7	36·5	42·2	+ 2·2	24	15	2	0·28	−0·04	*	*	*	*
	Marchmont ℌ	49	24	44·9	33·9	39·4	+ 2·2	8	30	3	0·57	+0·02	17·8	− 0·4	26	− 1
2. ENGLAND, N.E.	Alnwick Castle	48	26	43·3	35·1	39·2	+ 0·8	4	25	4	0·34	−0·17	*	*	*	*
	Durham	51	24	43·1	32·4	37·8	− 0·2	3	35	3	0·23	−0·12	8·6	− 9·3	13	−14
	Shields	49	26	43·6	34·6	39·1	− 0·1	4	27	1	0·33	−0·01	*	*	*	*
	Scarborough ℌ	48	27	41·0	34·3	37·7	− 1·5	0	30	3	0·28	−0·12	*	*	*	*
	York	51	28	43·1	33·6	38·4	− 0·6	3	31	4	0·34	−0·04	2·3	−14·0	3	−20
	Spurn Head	45	29	40·4	34·0	37·2	− 1·8	0	34	3	0·31	+0·01	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	56	29	44·8	34·5	39·7	+ 1·2	8	29	2	0·33	−0·07	16·3	− 2·8	23	− 4
	Yarmouth	44	33	40·7	35·3	38·0	− 0·2	0	28	1	0·04	−0·34	*	*	*	*
	Geldeston	54	25	43·8	33·0	38·4	− 0·6	5	33	1	0·06	−0·27	17·4	− 2·4	25	− 3
	Cambridge	58	30	45·9	34·6	40·3	+ 1·1	11	29	2	0·19	−0·13	14·5	− 4·4	21	− 6
	Rothamsted	54	30	44·2	35·9	39·1	+ 0·6	6	30	3	0·19	−0·25	14·0	− 4·3	20	− 7
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	28	45·7	33·3	39·5	+ 0·5	10	33	3	0·52	−0·02	*	*	*	*
	Loughborough	57	27	44·7	33·0	38·9	− 0·3	8	34	3	0·39	+0·01	*	*	*	*
	Stamford (Ketton Hall)	54	29	43·4	33·9	38·7	− 0·3	4	30	4	0·21	−0·15	*	*	*	*
	Cheadle ℌ	51	25	43·1	32·1	37·6	− 0·2	3	35	3	0·14	−0·08	*	*	*	*
	Solihull	54	27	43·5	32·7	38·1	− 0·9	4	34	3	0·41	?	*	*	*	*
	Churchstoke ℌ	53	27	44·2	31·5	37·9	− 1·0	6	39	4	0·10	−0·42	16·4	− 1·5	23	− 2
	Hereford ℌ	55	28	45·0	31·9	38·0	− 1·8	8	41	3	0·08	−0·33	*	*	*	*
	Cirencester	53	28	44·4	32·1	38·3	− 0·4	7	37	4	0·20	−0·30	19·2	− 0·5	27	− 1
	Oxford	55	28	45·9	34·4	40·4	+ 0·4	11	30	3	0·23	−0·16	18·6	+ 0·6	27	+ 2
5. ENGLAND, S.	London	55	31	46·6	36·4	41·5	+ 1·3	13	23	3	0·18	−0·17	9·3†	− 1·5	13†	− 2
	North Foreland	51	32	44·4	37·4	40·9	+ 1·1	7	18	1	0·01	?	*	*	*	*
	Strathfield Turgiss ℌ	56	29	47·1	34·5	40·8	+ 1·3	14	30	3	0·18	−0·23	*	*	*	*
	Dungeness	51	33	45·3	38·0	41·7	+ 1·9	9	17	2	0·08	−0·30	*	*	*	*
	Hastings (St. Leonards)	51	32	45·9	36·3	41·1	+ 1·0	11	23	3	0·25	−0·23	18·8	− 3·4	23	− 5
	Southampton	53	30	47·7	36·5	42·1	+ 1·0	24	15	2	0·20	−0·32	16·3	− 4·2	23	− 6
	Hurst Castle	50	36	46·4	39·1	42·8	+ 1·9	18	8	2	0·20	−0·25	*	*	*	*
	Stowell ℌ	51	31	45·1	35·3	40·2	− 0·6	9	26	3	0·19	−0·43	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	54	36	50·2	38·7	44·5	+ 4·3	31	9	2	0·42	−1·16	*	*	*	*
	Glasgow	48	31	45·2	36·7	41·0	+ 2·0	9	21	3	0·31	−0·45	1·7	− 10·5	3	−15
	Ardrossan	48	32	45·0	37·0	41·0	+ 0·8	8	20	4	0·14	−0·48	*	*	*	*
	Glenlee ℌ	47	25	43·8	32·4	38·1	+ 0·1	5	35	4	0·69	−0·36	*	*	*	*
	Douglas (Isle of Man)	49	31	45·0	35·4	40·2	− 0·5	8	25	2	0·35	−0·35	4·0	− 15·2	6	−21
7. ENGLAND, N.W.	Stonyhurst	50	25	43·8	33·6	38·7	− 0·1	5	31	3	0·28	−0·52	5·8	− 10·4	8	−15
	Blackpool ℌ	52	26	43·5	33·4	38·5	− 0·3	4	32	3	0·31	−0·17	11·4	− 5·3	17	− 7
	Manchester (Prestwich)	51	23	45·6	34·1	39·9	+ 1·1	10	31	3	0·42	−0·08	5·4	?	8	?
	Liverpool Obsy. (Bidston)	51	28	43·9	33·7	38·8	− 1·6	5	30	2	0·17	−0·19	*	*	*	*
	Llandudno ℌ	53	27	47·7	35·5	41·6	− 0·2	16	27	4	0·04	−0·42	16·7	− 1·9	24	− 3
	Holyhead	50	31	46·3	37·6	42·0	0·0	12	12	3	0·18	−0·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	54	29	48·9	33·7	41·3	+ 0·5	19	34	4	0·19	−0·71	*	*	*	*
	Pembroke	49	33	47·3	38·9	43·1	+ 0·9	21	9	2	0·13	−0·47	16·5	− 5·0	24	− 6
	Bristol (Montpelier)	54	29	46·5	33·8	40·2	− 0·7	13	32	4	0·21	−0·36	*	*	*	*
	Arlington (N. Devon)	51	30	47·0	35·0	41·0	+ 0·1	14	28	3	0·60	−0·88	*	*	*	*
	Cullompton ℌ	51	29	46·8	36·2	41·5	+ 0·4	13	24	3	0·30	−0·44	6·5	− 12·5	9	−19
	Falmouth	53	38	49·9	42·9	46·4	+ 2·7	31	0	4	0·26	−0·71	22·6	+ 0·5	32	+ 1
	Plymouth	54	33	48·8	39·4	44·1	+ 1·6	26	7	3	0·42	−0·23	22·6	+ 1·1	32	+ 2
	Prawle Point	50	39	48·0	41·4	44·7	+ 2·6	21	2	2	0·16	−0·29	*	*	*	*
9. IRELAND, N.	Malin Head	50	34	47·0	39·4	43·2	+ 0·2	19	7	1	0·15	?	*	*	*	*
	Londonderry	53	34	49·1	38·1	43·6	+ 2·6	28	11	1	0·11	−0·49	*	*	*	*
	Edenfel (Omagh)	49	31	46·1	35·7	40·9	+ 1·8	11	25	1	0·24	−0·29	*	*	*	*
	Belmullet	54	32	49·6	38·7	43·9	+ 0·4	27	9	2	0·38	−0·82	*	*	*	*
	Markree Castle	52	31	47·8	35·6	41·7	+ 1·4	16	26	1	0·18	−0·50	20·0	+ 2·9	29	+ 4
	Brookeborough												*	*	*	*
	Armagh	53	35	47·9	37·1	42·5	+ 2·6	24	14	1	0·01	−0·57	14·4	− 2·3	21	− 3
	Donaghadee	51	30	46·4	36·4	41·4	+ 0·6	12	23	2	0·14	−0·36	*	*	*	*
	Edgeworthstown	51	33	46·0	34·3	40·3	+ 0·4	11	29	1	0·09	−0·50	*	*	*	*
10. IRELAND, S.	Dublin	52	32	48·4	38·5	43·5	+ 1·3	25	10	2	0·06	−0·42	16·3	− 2·7	23	− 4
	Parsonstown	54	31	48·7	35·6	42·2	+ 1·2	28	18	2	0·25	−0·25	16·9	− 1·1	24	− 2
	Kilkenny	52	35	48·7	38·0	43·4	+ 1·4	27	11	3	0·26	−0·33	*	*	*	*
	Roche's Point	52	40	49·9	42·9	46·4	+ 2·6	31	0	4	0·42	−0·57	*	*	*	*
	Valencia	55	38	51·4	42·4	46·9	+ 2·9	34	0	3	0·72	−0·38	16·6	− 3·1	24	− 4
	Killarney	54	32	49·8	38·4	44·1	+ 0·1	30	10	3	0·83	?	*	*	*	*
	Foynes	54	34	50·0	39·2	44·6	+ 2·1	30	8	2	0·33	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	43	51·7	44·9	48·3	+ 2·5	44	0	2	0·19	−0·42	23·4	?	33	?
	Jersey	54	36	48·9	38·4	43·7	+ 0·5	27	10	3	0·21	−0·36	18·8	− 6·0	26	− 9

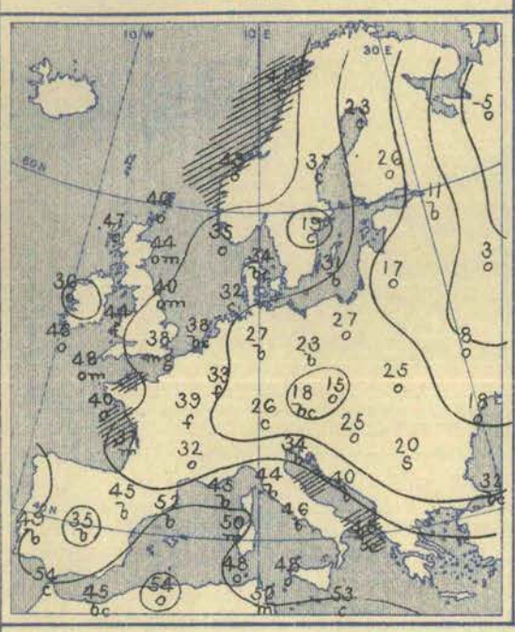
Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

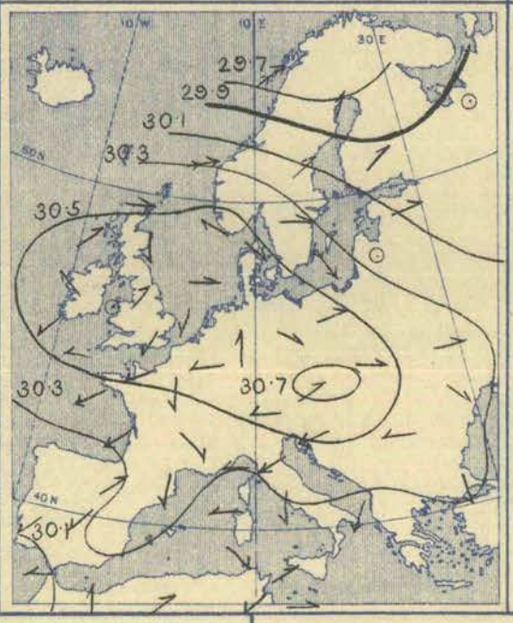
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 16th February.

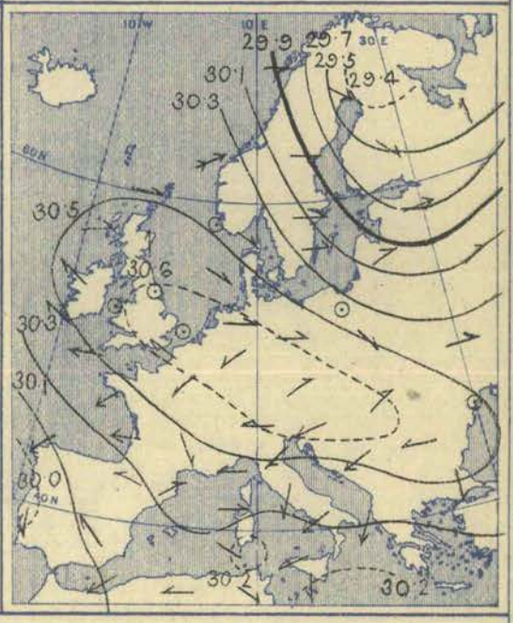
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over nearly the whole of Europe, dull in many places, clear and bright in others, but dry as a whole. Rain falling, however, over Finmark, snow at Hermanstadt. Slight rain or snow later over the northern countries, and also at Perpignan; weather fair as a whole elsewhere, but gloomy and hazy over England, foggy in the north-east of France.

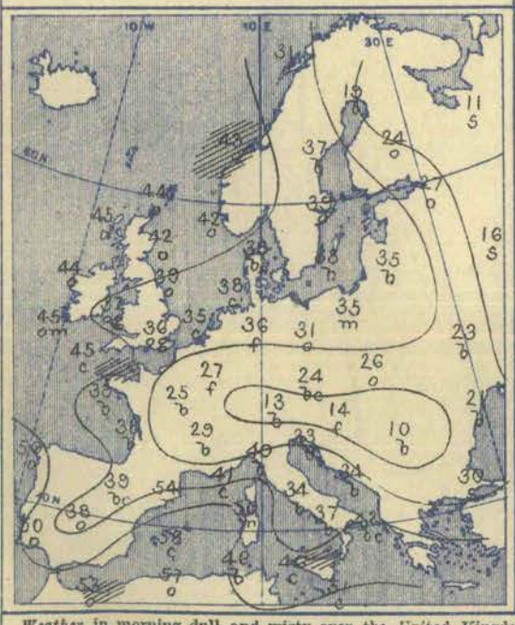
Temperature risen very rapidly over Finland and the north of Scandinavia, fallen generally elsewhere. Morning readings highest, 54° at Algiers, 53° at Malta, 52° at Barcelona, 48° at Scilly, 46° at Valencia (Ireland), 47° at Stornoway, 43° at Christiansund. Lowest, – 5° Fahr. at Archangel, – 4° at Kharkov, + 3° at Moscow, 8° at Kiev, 11° at St. Petersburg, and much below the freezing point over the southern half of Sweden and the greater part of central Europe; below 40° over the eastern and inland parts of England. Rising later to 52° at Wick, 50° at Aberdeen and Scilly, and touching 61° at Marseilles, 63° at Algiers and Palermo, 66° at Cagliari.

Wind South-Westerly to North-Westerly over the northern countries, and blowing a gale in the north-west of Scandinavia; Easterly to Northerly and strong over the Mediterranean and south of France; anticyclonic and moderate to light over central Europe and England. No decided change later.

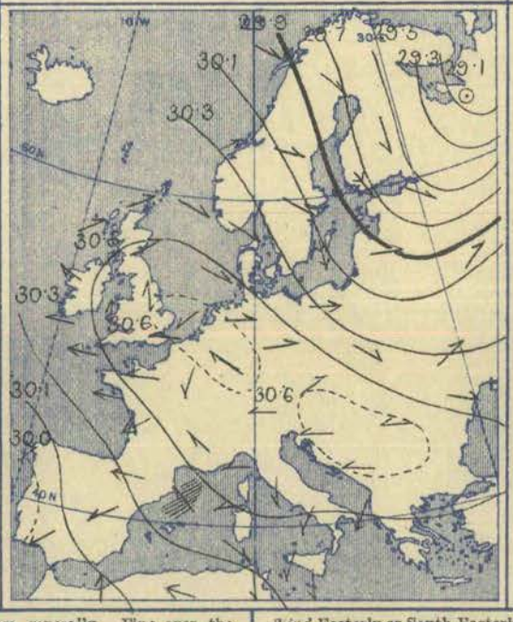
Barometer highest, 30·7 ins. and more over Austria, and exceeding 30·5 ins. in an anticyclonic area covering nearly the whole of western and central Europe. Lowest, 29·6 ins. and less over Lapland; below 30·2 ins. over the south-eastern parts of the Mediterranean, and below 30·1 ins. off the south-west coast of Spain. Gradients over northern Europe steep for Westerly winds. Rising fast over the north of Scandinavia later, falling over Russia; rising over southern Europe, falling over Portugal.

Monday, 17th February.

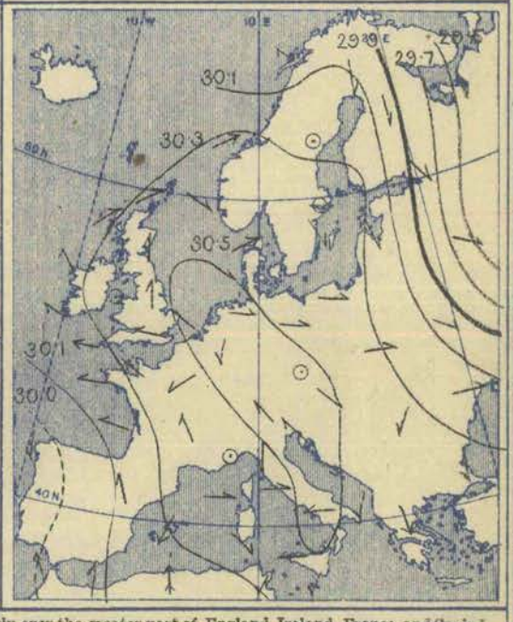
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and misty over the United Kingdom generally. Fine over the greater part of the Continent, but foggy in places, dull over Norway and the greater part of Russia, with snow at Archangel and Moscow. Dull also over the Spanish Peninsula, with rain at Barcelona. Sky clearing later at many of our own southern stations—heavy rain falling at Lisbon, and about 0·3 in. at Christiansund—snow at Archangel.

Temperature risen quickly over Russia and the south of Sweden, fallen in most other localities. Morning readings highest, 58° at Palma, 57° at Bilbao and Algiers, and 56° at Oporto; above 45° at most of the Mediterranean and Spanish coast stations, and just touching that point in the extreme south-west of our Islands, and also at Stornoway. Lowest, (1) – 11° at Kharkov, + 10 at Hermanstadt, 13° at Munich, and 14° at Vienna; (2) 11° at Archangel, and 19° at Uleaborg; below the freezing point over north-eastern, eastern, and central Europe, and in some parts of central England. Maxima below 40° over eastern and central England, but rising to 45° in Scotland, and reaching 56° at Leith, 55° in the south of France, 67° at Cagliari, and 70° at Algiers.

Wind Easterly or South-Easterly over the greater part of England, Ireland, France, and Spain; fresh or strong in force over our extreme south-west coasts and the Bay of Biscay. Light from the Southward or South-Westward on our north and north-east coasts; Westerly or North-Westerly in Scandinavia, Denmark and Germany. Strong from the Northward or North-Westward over Finland and the Baltic, with a gale at Wisby and Helsingfors; South-Westerly over the central and southern parts of Russia. Calm or light from the Eastward in Austria; North-East in Italy. No important change over western Europe during day.

Barometer highest, 30·6 ins. and upwards over the Netherlands and the east of England, and also over Austria; 30·3 ins. and upwards in an anticyclone covering nearly the whole of western, central, and southern Europe. Lowest 29·0 ins. and less in a rather deep depression over the extreme north of Russia, 30·0 ins. and less in a shallow disturbance off the Portuguese coasts. Anticyclone subsequently moving eastwards, and barometer falling over western Europe generally. Depression over north of Russia moving south-eastwards quickly.

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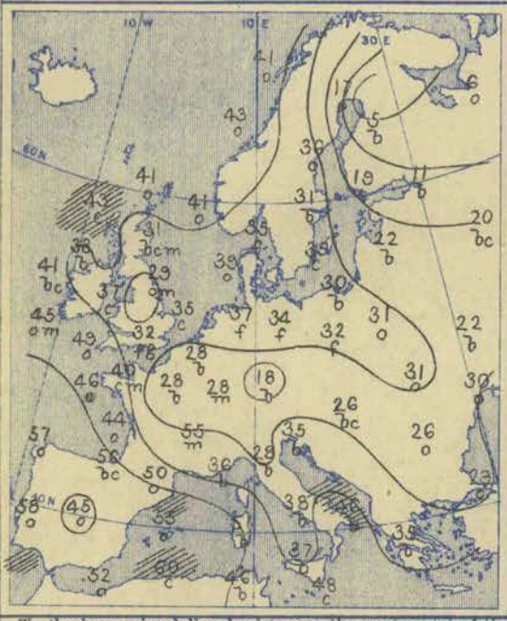
Tuesday, 18th February.

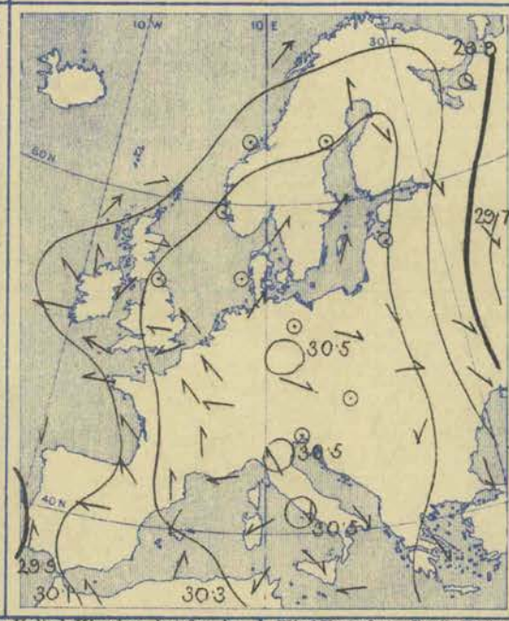
Temperature and Weather. 8 a.m.



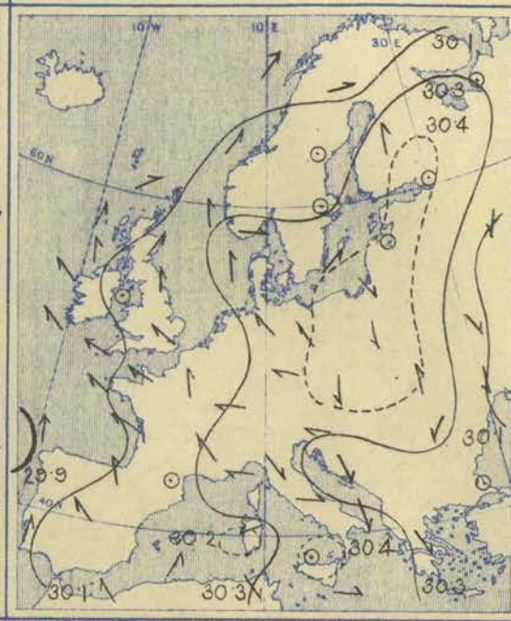
Weather in morning dull and misty over the greater part of the United Kingdom, but fine in the north of Ireland and the north-east of Scotland; fair over the Continent as a whole, but foggy in many parts of Denmark, Germany, and the Netherlands; dull in Norway and also over the Spanish Peninsula and the south of Russia. Sky clearing later in many parts of our Islands; solar halo seen at Jersey.

Temperature risen quickly in the south of Russia and Austria, less quickly over Germany, France, and Spain, but fallen in most other countries. Morning readings highest, 60° at Oran and Algiers, 58° at Lisbon, 57° at Corunna, and 56° at Bilbao; above 50° at many of the Mediterranean and Spanish coast stations. Lowest, – 2° Fahr. at Uleaborg, + 5° at Kuopio, 6° at Archangel, 11° at St. Petersburg, and 14° at Helsingfors; below the freezing point in most parts of northern, eastern, and central Europe, and also over the eastern and central parts of Great Britain. Daily maxima below 40° at several of the English stations, but thermometer reaching 45° or more in Ireland and the north of Scotland, exceeding 55° in the south of France, and reaching 64° at Biarritz, 66° at Cagliari, and 77° at Algiers.

Barometer and Wind. 8 a.m.



6 p.m.

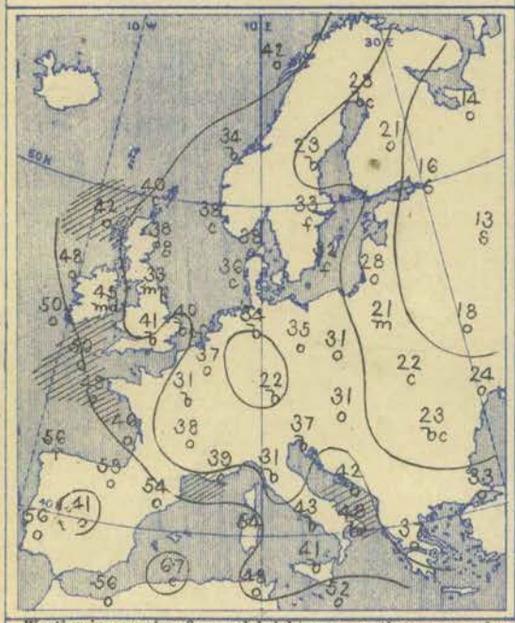


Wind Easterly or South-Easterly over Spain, France, western Germany, the Netherlands, and the southern parts of the United Kingdom; fresh in force on the Spanish coasts, and also at the mouth of the English and Bristol Channels. Light from the Southward or South-Westward over the north of our Islands, calm or variable over Denmark and Scandinavia. Light from the Northward or North-Westward over Russia, Austria, and Italy. No important change occurring over western Europe during day.

Barometer highest, 30·4 ins. to 30·5 ins. over Italy and central Europe generally; 30·2 ins. and upwards in an anticyclone embracing all but the extreme south-western, northern, and eastern parts of Europe. Lowest, 29·7 ins. and less in a large depression over the southern parts of Russia; 29·9 ins. and less in a shallow system off the Portuguese coast. Latter disturbance subsequently spreading northwards, and barometer falling over western Europe generally, that over Russia moving southward quickly.

Wednesday, 19th February.

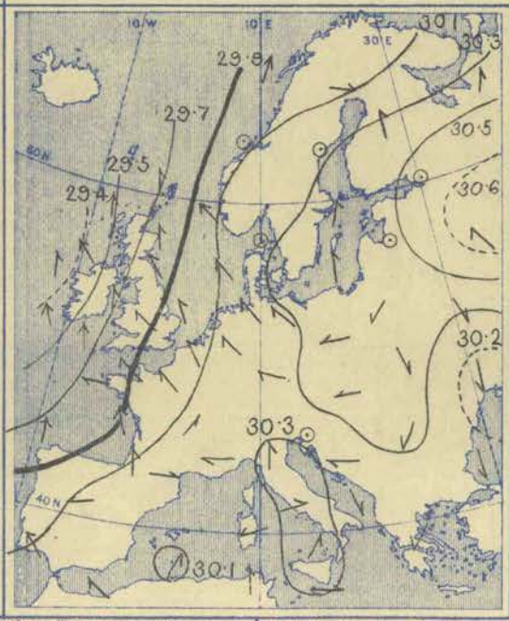
Temperature and Weather. 8 a.m.



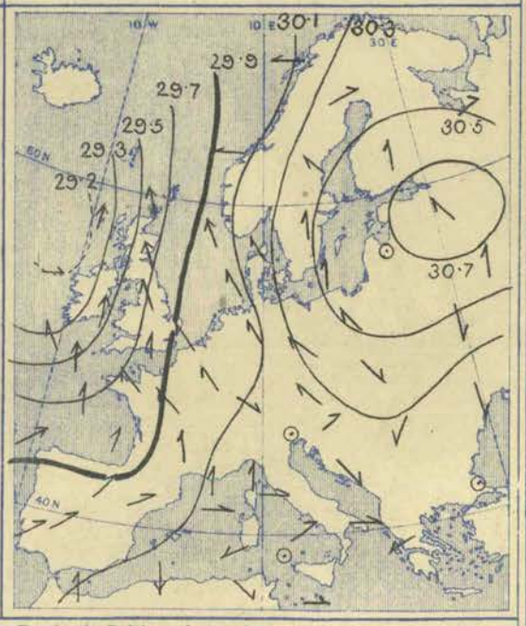
Weather in morning fine and bright over south-eastern and southern Europe, as well as over many parts of France, the east of England, and at some of the Scotch and Scandinavian stations, cloudy or overcast in most other places, with an angry appearance at Wick, fog in the south-east of Sweden, snow at St. Petersburg and Moscow. Rain falling later over nearly the whole of our Islands, the largest amounts being 0·55 in. at Valencia, and 0·35 in. at Belmullet—showers very slight in the south and east of England, and heavy locally at some of the southern French stations.

Temperature risen all over Ireland, England, and France. Morning readings highest, 67° at Algiers, 59° to 55° on the Atlantic coasts of the Iberian Peninsula, 50° at Scilly and Valencia (Ireland). Lowest, (1) 13° at Moscow, 14° at Archangel; below 20° over the greater part of Russia, 21° at Warsaw, Kharkov, and Kuopio; (2) 22° at Munich, 28° at Wiesbaden, 31° at Paris, 35° at Shields. Rising later to 50° and more at many of our stations, to 55° in London, 57° at Loughborough, 58° at Cambridge, to 59° at Rochefort, 63° at Perpignan, 66° at Cagliari, 68° at Biarritz, 73° at Algiers.

Barometer and Wind. 8 a.m.



6 p.m.



Wind light and anticyclonic over Russia, the Baltic, and central Europe; Southerly (South-East to South-West) over the British Islands and western Europe, and blowing strongly at many of the most western stations. Increasing to a gale from South-East or South on our northern and north-western coasts later, and becoming more Southerly over England in the afternoon and evening than at 8 a.m.

Barometer highest, 30·62 ins. at Moscow, and 30·0 ins. over Continental Europe generally. Lowest, below 29·4 ins. off the north-west coast of Ireland, and below 30·2 ins. over the Black Sea. Gradients becoming somewhat steep over the western parts of the United Kingdom. Falling decidedly over the British Islands during day. Anticyclone over Russia increasing in intensity, and taking up a rather more northerly position than at 8 a.m.

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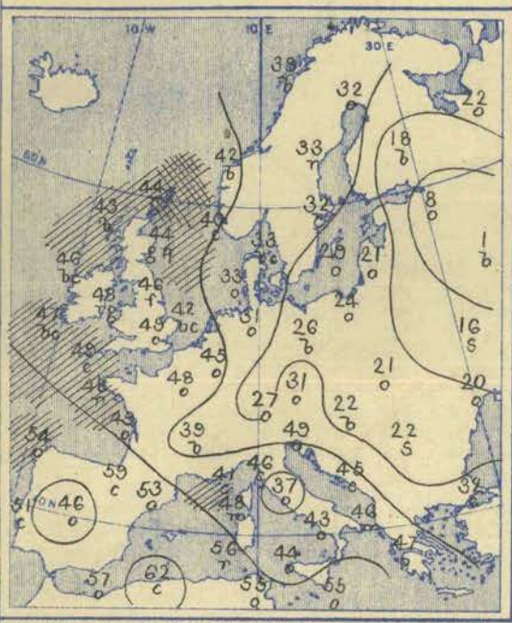
Thursday, 20th February.

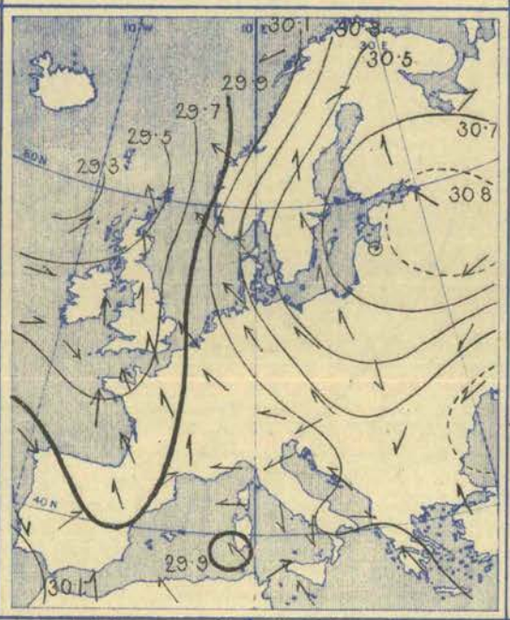
Temperature and Weather. 8 a.m.

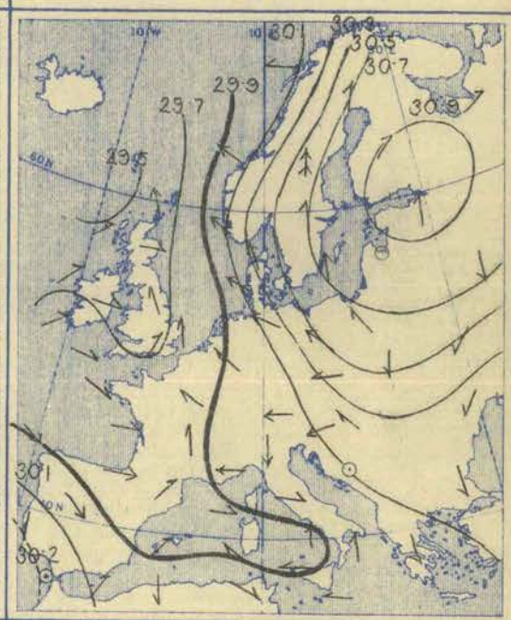


Weather in morning fine and bright over several parts of northern and central Europe, as well as over Ireland, the west of Scotland, and the north-west of Norway, cloudy or overcast very generally elsewhere, rainy over the Irish Sea, Brittany, and some of the southern parts of England, as well as at Hernösand, snow falling at Warsaw and Kiev. Rain falling later in all parts of the British Isles, most at Sumburgh Head and Shields; showers in several parts of France—heavily at the south-western stations, and very heavily at Cette.

Temperature risen quickly over France and Great Britain, fallen over Russia and central Europe, and also over England. Morning readings highest, 62° at Algiers, 57° at Nemours, 59° at Biarritz, 49° at Scilly, Oxford, and Nairn. Lowest, 1° Fahr. at Moscow, 8° at St. Petersburg, and below 20° over the greater part of Russia, 22° at Buda Pesth, 27° at Munich, 33° at the Danish stations. Rising to between 50° and 54° over many parts of the British Islands later, to 59° at Lyons, 60° at Paris, and 62° at Perpignan. Night rather cold over Ireland.

Barometer and Wind. 8 a.m. and 6 p.m.



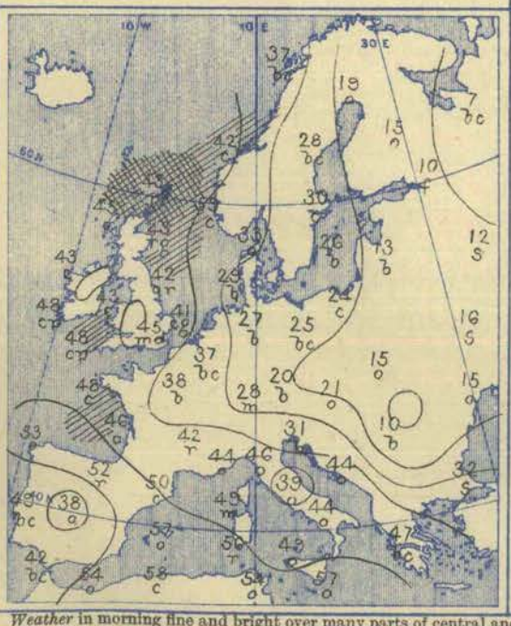


Wind anticyclonic over all the northern, eastern, and central parts of Continental Europe, and blowing strongly (from South-East) over Denmark and the immediate neighbourhood; Southerly moderate to fresh over Great Britain, but Westerly to North-Westerly at our western stations, and on the Atlantic coasts of the Peninsula.

Barometer highest, 30·8 ins. and more at Moscow and St. Petersburg, and exceeding 30·0 ins. over all the northern and eastern countries of Europe; 30·0 ins. and more over the greater part of Portugal and the south-west of France, and 30·3 ins. over the Azores. Lowest, 29·4 ins. and less over the north-western parts of our Islands, and varying from 29·5 ins. to 29·7 ins. in a well-marked "V" spreading southwards over Wales, the west of England, Brittany, and the eastern parts of the Bay of Biscay; below 29·9 ins. at Cagliari. Changing little over England later, but rising decidedly over Scotland and Scandinavia.

Friday, 21st February.

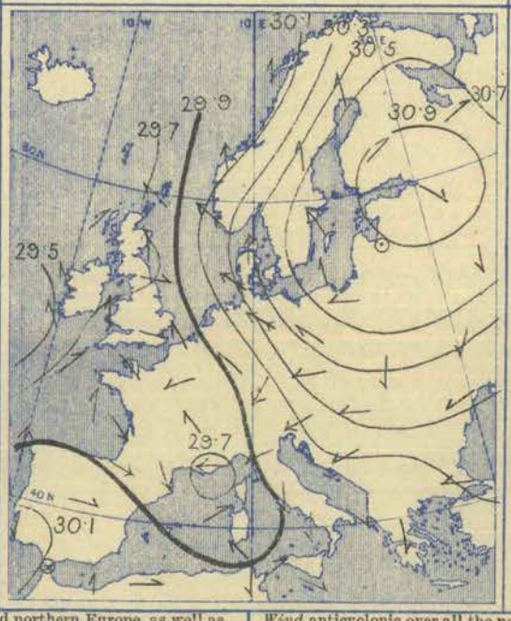
Temperature and Weather. 8 a.m.

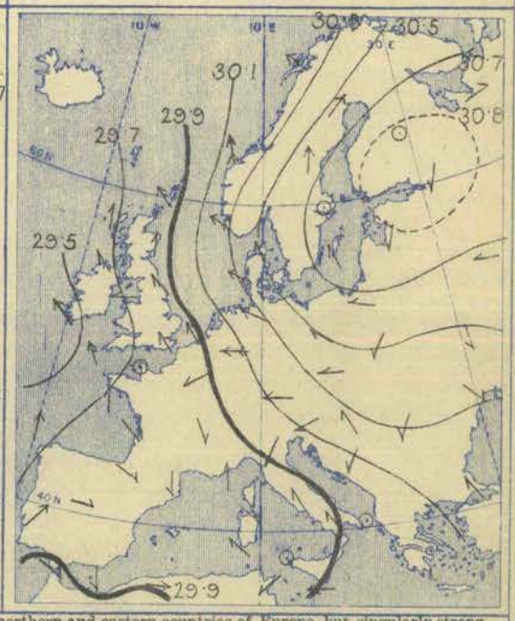


Weather in morning fine and bright over many parts of central and northern Europe, as well as in the south-west of Spain, and at some stations in France and England; cloudy and changeable elsewhere, with rain in the south of France and in several parts of our Islands; snow at Moscow, Kiev, and Constantinople. Rain falling later over the Spanish Peninsula, the south of France, and in many parts of the British Isles—most at Sumburgh Head; thick mist and drizzle very prevalent in London.

Temperature fallen somewhat over the Continent and Great Britain, risen in the south of Ireland. Morning readings highest, 58° at Algiers, 57° at Malta, 53° at Nemours and Corunna, 49° to 45° on our extreme south-west coasts, 45° at Stornoway, 42° at Christiansund. Lowest, 7° Fahr. at Archangel, 8° at Kharkov, and below 20° over Russia generally, 18° at Breslau, 20° at Munich, 25° at Berlin, 27° at Cuxhaven. Rising later to 68° at Palermo, and 64° at Algiers; changing irregularly over our Islands during day, but falling somewhat decidedly over western Europe generally at night.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind anticyclonic over all the northern and eastern countries of Europe, but singularly strong for such conditions over the countries lying to the eastward of the North Sea (a moderate to fresh gale from South-East in several places). Very variable from the Southward and South-Eastward (cyclonic) over the British Islands; North-Westerly in the south-west of France; Southerly in the north-west of Spain. The South-Easterly wind becoming more general over our Islands later, and blowing a gale in the north-east of Scotland.

Barometer highest, 30·9 ins. and more over Finland and the Baltic provinces of Russia, and exceeding 30·0 ins. over all the northern, eastern, and south-eastern parts of Europe; (2) 30·2 ins. and more over the Azores, and exceeding 30·0 ins. over the south-western half of Spain. Lowest, below 29·6 ins. over the western parts of Ireland, and apparently still lower over the Atlantic; below 29·7 ins. in a depression over the Gulf of Lyons, and below 29·9 ins. all over France and England. Rising decidedly over the North Sea and Great Britain later; the local disturbances over the British Islands and France filling up, and the disturbance off our extreme western coasts moving south-eastwards towards Spain.

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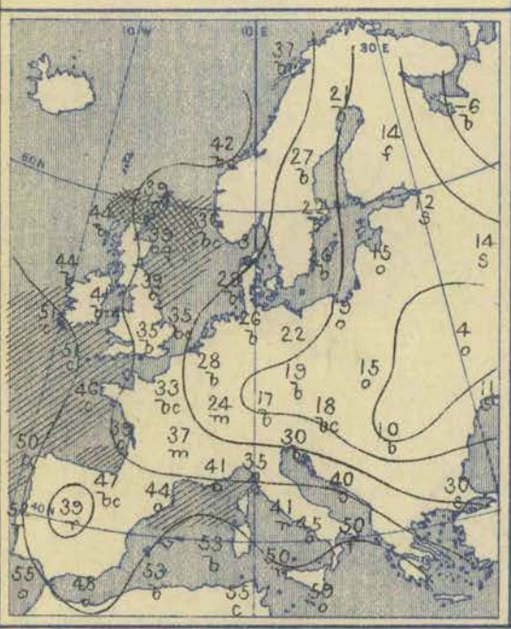
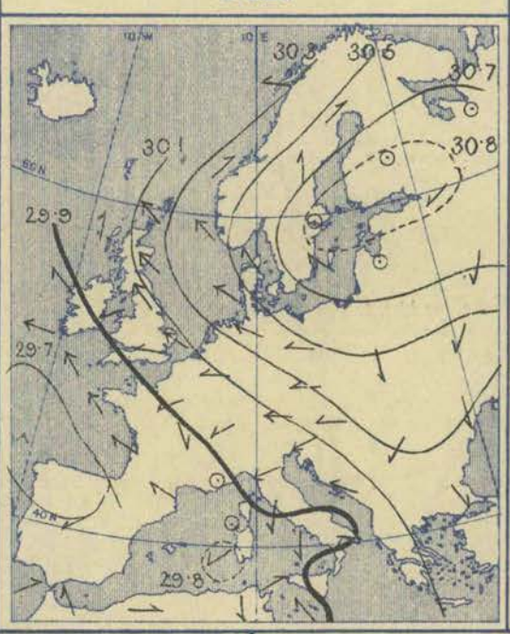
Saturday, 22nd February.

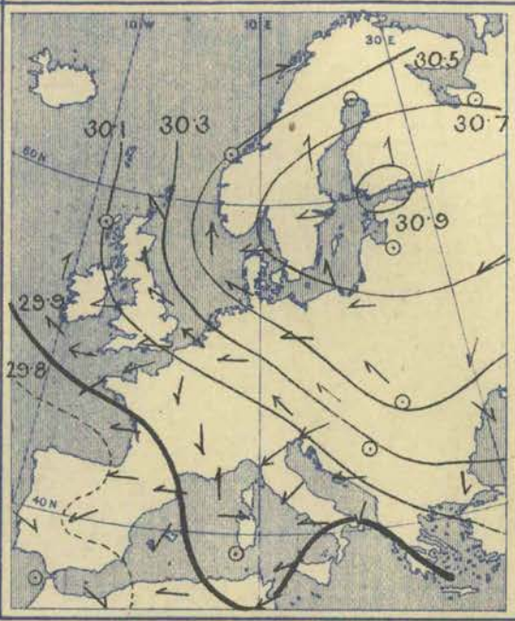
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine generally over northern and central Europe, fair over the greater part of the British Islands and France, cloudy elsewhere, with some rain in the south-east of Ireland and the west of Scotland, snow at St. Petersburg, Moscow, and Odessa. A little rain later at Roche's Point, Lisbon, and Lyons; not at any of the other stations in western Europe.

Temperature fallen over Great Britain and the Continent. Morning readings highest, 59° at Malta, and above 50° at most stations on the southern side of the Mediterranean, and on the coasts of the Spanish Peninsula, as well as at Scilly and Valencia (Ireland), 45° at Prawle Point, 44° at Stornoway. Lowest, (1) - 6° Fahr. at Archangel, + 12° at St. Petersburg and Helsingfors, 14° at Kuopio and Moscow; (2) 4° at Kiev, 5° at Kharkov, 11° at Odessa, 10° at Hermanstadt, 18° at Buda Pesth, Vienna, and Prague; above the freezing point over the British Islands. Rising later to between 50° and 55° on our extreme west and south-west coasts, and to between 40° and 46° over England, to 55° at Paris and Lisbon, and 64° at Biarritz.

Wind anticyclonic over almost the whole of western Europe, but blowing strongly for such conditions over all the north-western countries. Direction Easterly over central Europe, France, and the south of England; South-Easterly over the greater part of the British Islands and the North Sea; Southerly in the north of Sweden. Rising to a gale again over Caithness later; no great change elsewhere.

Barometer highest, 30·8 ins. and more over Finland and in the neighbourhood of Stockholm, and exceeding 30·0 ins. over all the northern and eastern countries of Europe, and the eastern and north-eastern parts of Great Britain. Lowest, 29·7 ins. and less in a shallow depression over the Bay of Biscay, and below 29·8 ins. in another over Sardinia. Gradients rather steep over the North Sea and western Germany. Rising later over the northern and north-western countries (most over the British Islands); falling slightly over Portugal.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During all the earlier parts of this week anticyclonic conditions prevailed over the whole of central and western Europe, including the greater part of the British Islands, and in these, fine but cloudy or foggy weather was prevalent, with little or no rain, and with temperatures in excess of the mean over the United Kingdom, but below it over the Continent. The only depression which appeared was over northern Europe, and brought with it strong North-Westerly winds and some snow.

After Tuesday the anticyclone moved north-eastward and, as it did so, cyclonic Southerly breezes and rain spread over the British Islands and France from the Atlantic. The air became very warm and humid, thick mist was reported in many places and the wind at one time blew with the force of a gale on our north-western and northern coasts. The "V shaped" secondary system, developed on Thursday, was an unusually large and well-developed system. On Friday the low pressure system was breaking up, and the anticyclone (which had reached northern Europe) was increasing greatly both in area and intensity, and spreading westwards towards the British Islands and France. On Saturday, cold dry winds from East and South-East were becoming general over western Europe, with very bright weather and frost at night.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 44.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	14·3	- 0·9	21	- 1	EASTBOURNE	18·6	- 0·9	26	- 1
OSWALDKIRK (Yorkshire)	6·3	- 10·2	9	- 15	MANCHESTER (Oldham Road)	6·9*	?	10*	?
WORKSOP	8·1	- 7·9	12	- 11	TENBY				
THURCASTON (Leicestershire)	12·5	- 3·5	18	- 5	NEWQUAY				
MARGATE	19·3	+ 1·9	28	+ 2	TORQUAY	6·5*	- 12·6	9*	- 18
WESTBOURNE (Sussex)	16·4*	- 4·8	23*	- 7	ARLEY COTTAGE (County Cavan)	15·9	- 0·4	23	- 1
BRIGHTON	23·7	+ 2·7	33	+ 4	GUERNSEY	15·9*	- 8·4	22*	- 12

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 9.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 29TH, 1896. [*Price 6d.* *Annual Subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 50.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	25	43·7	34·4	39·1	1 above	5	− 2	28	− 7	115	+ 56	167	− 194
	1. SCOTLAND, EAST	52	23	42·8	30·9	36·9	1 below	2	− 9	40	+ 1	107	+ 32	249	− 139
	2. ENGLAND, N.E.	53	24	42·5	31·0	36·7	2 below	1	− 11	39	+ 7	91	+ 20	220	− 122
	3. ENGLAND, EAST	55	19	42·0	29·4	35·7	3 below	0	− 16	44	+ 8	89	+ 2	271	− 120
	4. MIDLAND COUNTIES	56	15	43·9	28·1	36·0	3 below	5	− 10	50	+15	123	+ 22	255	− 133
	5. ENGLAND, SOUTH	58	17	44·7	31·3	38·1	3 below	8	− 10	40	+12	125	+ 16	196	− 117
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	26	43·8	34·1	39·0	1 below	5	− 6	29	+ 2	142	+ 54	137	− 138
	7. ENGLAND, N.W.	52	25	44·2	32·8	38·5	2 below	6	− 6	34	+ 7	142	+ 62	148	− 158
	8. ENGLAND, S.W.	55	24	46·2	33·8	40·0	2 below	12	− 7	32	+10	186	+ 47	133	− 99
	9. IRELAND, NORTH	56	32	47·9	39·0	43·4	3 above	22	+ 7	8	−16	201	+ 83	98	− 142
	10. IRELAND, SOUTH	56	31	50·1	40·7	45·4	2 above	29	+ 6	4	−13	269	+ 90	69	− 115
	—CHANNEL ISLANDS	54	29	48·3	38·0	43·2	1 below	25	+ 1	11	+ 3	264	+ 70	39	− 67

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 50.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	15	4 more	43	− 3	11·3	+ 0·1	12	− 5	16	− 7	52	− 30	10	− 6
	1. SCOTLAND, EAST	3	3	3 less	30	− 3	2·8	− 2·7	11	− 9	16	−12	99	− 13	19	− 2
	2. ENGLAND, N.E.	2	2	2 less	23	−10	1·9	− 2·0	19	0	26	0	87	− 22	16	− 4
	3 ENGLAND, EAST	3	2	1 less	26	− 8	2·2	− 1·7	26	+ 5	35	+ 5	118	− 11	21	− 2
	4. MIDLAND COUNTIES	2	3	1 less	23	− 9	1·9	− 2·7	24	+ 4	33	+ 6	105	− 13	19	− 2
	5. ENGLAND, SOUTH	1	1	3 less	20	−11	1·6	− 3·5	31	+ 9	41	+12	114	− 15	20	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	3 more	38	− 1	6·5	− 3·9	10	− 8	14	−11	60	− 42	11	− 8
	7. ENGLAND, N.W.	3	8	4 more	29	− 6	3·9	− 1·9	13	− 6	18	− 8	63	− 28	15	− 5
	8. ENGLAND, S.W.	2	2	5 less	25	− 9	2·8	− 4·6	22	− 2	29	− 4	120*	− 23	21	− 4
	9. IRELAND, NORTH	5	12	6 more	32	− 9	4·8	− 2·1	15	− 4	20	− 5	91	− 24	17	− 4
	10. IRELAND, SOUTH	4	6	0 (average)	28	−10	4·1	− 3·6	15	− 6	20	− 9	107	− 30	19	− 6
	—CHANNEL ISLANDS	3	2	3 less	28	−12	2·3	− 4·2	36	+16	49	+21	158	− 3	27	− 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was fine and dry over England during the greater part of the week, and showery in Ireland and Scotland. Heavy rain fell, however, over the south and west of Ireland on Tuesday, and towards the close of the week unsettled conditions, with rain at times, extended to all parts of the Kingdom.

Temperature was two or three degrees below the mean in England, and a degree below in Scotland E. and W.; in Scotland N., however, there was an excess of one degree, and in Ireland of two or three degrees. The highest of the maxima were recorded towards the end of the week, and ranged from 58° in England S., and 56° in the Midland counties and over Ireland, to 51° in Scotland W., and 49° in Scotland N. The lowest of the minima were registered on the 26th, when the thermometer fell to 15° in the Midland counties, 17° in England S., 19° in England E., and to between 24° and 32° elsewhere.

Rainfall exceeded the mean in Scotland N. and W., Ireland N., and England N.W., and just equalled it in Ireland S., but in all other districts there was a deficit. The fall in all the eastern and southern parts of England was very slight.

Bright Sunshine varied considerably in different parts of the Kingdom, but was, as a whole, above the mean value in the south and east, and below it in the west and north. The percentage of the possible amount of duration ranged from 49 in the Channel Islands, 41 in England S., and 35 in England E., to 18 in England N.W., 16 in Scotland N. and E., and to 14 in Scotland W.

Barometer and Wind.—During the earlier part of the period a large anticyclone stretched south-westwards from Scandinavia to our Islands, and pressure being low over the Atlantic, caused Southerly winds, strong to a gale, in the north and west, and moderate to fresh Easterly winds in the south. From the 24th, however, the barometer fell generally, and late on the 25th a "V shaped" depression appeared over our western districts, causing in those regions gales or strong winds from the Southward. This system soon dispersed, and on the 26th or 27th, a new anticyclone extended from the Atlantic to the southern parts of the Kingdom. A very decided decrease of pressure now set in over all parts of our area, and a large depression passing over Scandinavia from the Westward, the wind increased to a gale from the North-Westward on our extreme northern coasts, and blew moderately or freshly from the Westward in all other parts of the Kingdom.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 49 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	25	42·1	35·2	38·7	+ 0·7	0	24	5	0·78	+0·06	*	*	*	*
	Stornoway	48	30	44·4	35·7	40·1	+ 1·2	7	24	6	2·39	+1·49	19·4	+ 0·5	27	0
	Wick	45	27	43·3	33·4	38·4	+ 0·2	4	31	5	0·40	−0·14	*	*	*	*
	Glencarron 𝔖	49	29	45·7	32·8	39·3	+ 1·5	10	35	5	2·40	+0·95	*	*	*	*
	Fort Augustus 𝔖	48	31	42·7	33·7	38·2	− 0·6	2	30	4	0·91	−0·02	7·6	− 5·6	11	− 7
	Fort William 𝔖	47	33	44·2	35·3	39·8	+ 0·1	6	25	6	1·90	+0·15	8·0	− 9·3	11	−13
1. SCOTLAND, E.	Nairn	48	29	45·4	32·1	38·8	+ 0·1	10	37	5	0·34	−0·13	*	*	*	*
	Aberdeen	47	30	42·0	34·6	38·3	− 0·2	0	26	3	0·11	−0·41	4·9	−17·1	7	−24
	Braemar 𝔖	45	26	37·9	26·0	33·5	− 1·4	0	60	2	0·21	−0·47	11·5†	−10·3†	16†	−14†
	Ochtertyre 𝔖	51	23	43·9	29·6	36·8	− 1·0	5	45	4	0·40	−0·27	*	*	*	*
	Leith	52	27	46·0	31·0	38·5	− 1·5	11	41	4	0·23	−0·06	*	*	*	*
	Marchmont 𝔖	48	26	41·6	29·1	35·4	− 2·2	0	46	1	0·34	−0·17	11·5	− 8·5	16	−12
2. ENGLAND, N.E.	Alnwick Castle	48	28	41·1	31·9	36·5	− 2·2	0	39	1	0·05	−0·44	*	*	*	*
	Durham	51	24	42·8	29·1	36·0	− 2·2	2	46	3	0·19	−0·21	17·9	− 2·1	25	− 3
	Shields	51	27	43·9	30·7	37·3	− 2·2	5	41	2	0·29	−0·03	*	*	*	*
	Scarborough 𝔐	50	28	41·1	32·0	36·6	− 2·9	0	38	3	0·25	−0·13	*	*	*	*
	York	53	24	44·3	28·7	36·5	− 2·7	6	48	2	0·31	−0·04	16·4	− 2·4	22	− 4
	Spurn Head	47	30	40·9	33·6	37·3	− 1·9	0	33	2	0·12	−0·14	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	53	20	40·8	29·6	35·2	− 3·6	0	48	4	0·28	−0·09	28·7	+ 7·5	39	+11
	Yarmouth	51	28	40·9	32·0	36·5	− 2·0	0	39	2	0·17	−0·19	*	*	*	*
	Geldeston	53	24	40·8	31·3	36·1	− 3·3	0	41	2	0·24	−0·05	19·7	− 2·4	27	− 4
	Cambridge	55	19	44·9	26·0	35·5	− 4·3	8	58	3	0·25	−0·04	28·2	+ 7·2	38	+ 8
	Rothamsted	53	19	42·6	28·1	35·4	− 3·6	2	49	3	0·14	−0·25	20·2	+ 5·2	35	+
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	19	43·6	25·1	34·4	− 4·9	4	61	2	0·39	+0·11	*	*	*	*
	Loughborough	53	21	44·3	25·4	34·9	− 5·0	6	60	3	0·20	−0·13	*	*	*	*
	Stamford (Ketton Hall)	55	15	44·7	27·0	35·9	− 3·4	8	55	3	0·39	+0·09	*	*	*	*
	Cheadle 𝔐	49	22	42·2	30·0	36·1	− 1·7	1	42	3	0·97	+0·49	*	*	*	*
	Solihull	52	23	42·8	27·9	35·4	− 4·3	2	50	2	0·09	?	*	*	*	*
	Churchstoke 𝔐	53	24	43·7	32·1	37·9	− 1·2	5	36	2	0·23	−0·25	24·0	+ 4·0	33	+ 6
	Hereford 𝔐	54	24	45·4	29·9	37·7	− 2·3	10	45	1	0·01	−0·36	*	*	*	*
	Cirencester	53	22	43·6	28·1	35·9	− 3·1	4	50	1	0·03	−0·42	25·2	+ 3·5	34	+ 4
	Oxford	56	22	44·7	27·7	36·2	− 3·8	8	52	0	−	−0·35	30·1	+10·0	41	+14
5. ENGLAND, S.	London	56	24	44·6	31·4	38·0	− 2·8	7	39	2	0·05	−0·25	18·7‡	+ 5·9	25‡	+ 8
	North Foreland	53	28	42·6	33·1	37·9	− 2·3	2	32	1	0·28	?	*	*	*	*
	Strathfield Turgiss 𝔐	58	17	46·2	26·8	36·5	− 3·3	12	56	2	0·05	−0·31	*	*	*	*
	Dungeness	56	28	43·0	33·1	38·1	− 1·9	8	32	1	0·08	−0·28	*	*	*	*
	Hastings (St. Leonards)	55	24	44·7	32·0	38·4	− 2·0	8	37	1	0·04	−0·37	30·0	+ 5·0	41	+ 8
	Southampton	58	25	46·5	31·2	38·9	− 2·8	13	41	1	0·01	−0·45	41·5	+18·6	56	+24
	Hurst Castle	55	29	46·3	33·1	39·7	− 1·3	12	34	0	−	−0·39	*	*	*	*
	Stowell 𝔐	53	24	44·0	29·7	36·9	− 4·1	6	45	1	0·02	−0·53	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	50	32	45·2	35·4	40·3	− 0·3	9	25	6	1·89	+0·47	*	*	*	*
	Glasgow	48	29	42·7	32·4	37·6	− 1·6	2	34	5	0·60	−0·01	10·2	− 4·0	14	− 6
	Ardrossan	49	31	44·9	34·6	39·8	− 0·5	8	28	5	0·71	+0·21	*	*	*	*
	Glenlee 𝔖	49	26	41·6	32·0	36·8	− 1·4	9	36	5	1·21	+0·31	*	*	*	*
	Douglas (Isle of Man)	51	29	44·4	36·3	40·4	− 0·3	7	22	5	1·13	+0·53	10·0	−12·0	14	−16
7. ENGLAND, N.W.	Stonyhurst	47	26	41·4	32·1	36·8	− 2·2	0	36	3	1·36	+0·61	16·7	− 1·8	23	− 2
	Blackpool 𝔐	48	26	43·0	30·3	36·7	− 2·8	3	42	3	0·61	+0·21	10·1	− 8·4	14	−12
	Manchester (Prestwich)	49	25	44·4	31·2	37·8	− 1·2	7	39	3	1·29	+0·84	14·1	?	19	?
	Liverpool Obsy. (Bidston)	50	26	43·1	21·6	37·4	− 3·5	3	38	3	0·68	+0·37	*	*	*	*
	Llandudno 𝔐	50	29	46·9	36·1	41·5	− 0·4	14	24	3	0·62	+0·22	?11·9	? − 8·5	?16	? −12
	Holyhead	52	30	46·4	35·4	40·9	− 1·1	12	26	5	0·50	0·00	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	25	46·7	29·1	37·9	− 3·6	13	48	3	0·36	−0·49	*	*	*	*
	Pembroke	50	33	45·1	37·1	41·1	− 0·9	9	19	3	0·29	−0·23	17·0	− 7·2	23	−10
	Bristol (Montpelier)	52	23	45·1	29·9	37·5	− 3·7	9	45	1	0·03	−0·45	*	*	*	*
	Arlington (N. Devon)	55	27	45·3	30·3	37·8	− 3·1	9	43	3	0·65	−0·29	*	*	*	*
	Cullompton 𝔐	54	24	45·9	30·6	38·3	− 3·6	11	43	1	0·03	−0·69	28·3	+ 6·5	38	+ 8
	Falmouth	53	34	47·6	40·1	43·9	+ 0·3	21	5	2	0·15	−0·76	2·9	− 1·9	31	− 2
	Plymouth	55	30	46·5	36·9	41·7	− 0·8	13	21	0	−	−0·58	22·5	− 1·8	30	− 3
	Prawle Point	55	28	47·0	36·3	41·7	− 0·3	14	24	1	0·01	−0·41	*	*	*	*
9. IRELAND, N.	Malin Head	48	34	46·0	39·9	43·0	+ 1·0	16	6	5	1·32	?	*	*	*	*
	Londonderry	51	34	48·2	38·9	43·6	+ 2·4	24	9	5	1·98	+1·47	*	*	*	*
	Edenfel (Omagh)	52	33	47·0	37·6	42·3	+ 2·7	21	12	4	1·08	+0·58	*	*	*	*
	Belmullet	5	37	49·7	41·7	45·7	+ 2·7	27	1	5	1·32	+0·40	*	*	*	*
	Markree Castle	54	34	48·8	39·5	44·2	+ 2·8	26	7	6	1·28	+0·31	12·3	− 6·7	17	− 9
	Brookeborough												*	*	*	*
	Armagh	56	32	48·0	38·0	43·0	+ 3·0	24	11	4	0·91	+0·34	13·9	− 4·6	19	− 6
	Donaghadee	52	36	47·0	38·6	42·8	+ 1·8	20	10	5	0·69	+0·27	*	*	*	*
	Edgeworthstown	53	32	48·3	37·5	42·9	+ 2·7	25	13	4	1·20	+0·65	*	*	*	*
10. IRELAND, S.	Dublin	54	34	49·0	40·0	44·5	+ 2·3	26	6	4	0·46	+0·01	14·1	− 7·0	19	−10
	Parsonstown	55	32	50·1	38·0	44·1	+ 2·9	32	11	3	0·52	+0·04	16·0	− 4·0	22	− 5
	Kilkenny	56	31	49·1	38·9	44·0	+ 1·5	27	9	2	0·40	−0·19	*	*	*	*
	Roche's Point	56	38	51·1	43·0	47·1	+ 3·4	36	0	1	0·45	−0·43	*	*	*	*
	Valencia	53	33	51·3	43·7	47·5	+ 2·7	39	0	6	1·29	+0·31	14·0	− 8·4	19	−12
	Killarney	56	32	51·8	40·0	45·9	+ 1·9	36	6	5	0·75	?	*	*	*	*
	Foynes	52	34	48·3	41·4	44·9	+ 2·2	23	2	4	0·47	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	38	50·0	41·3	45·7	+ 0·1	29	2	3	0·14	−0·14	21·8	?	29	?
	Jersey	54	29	46·6	34·6	40·6	− 2·8	13	29	2	0·02	−0·50	40·4	+12·7	55	+17

Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

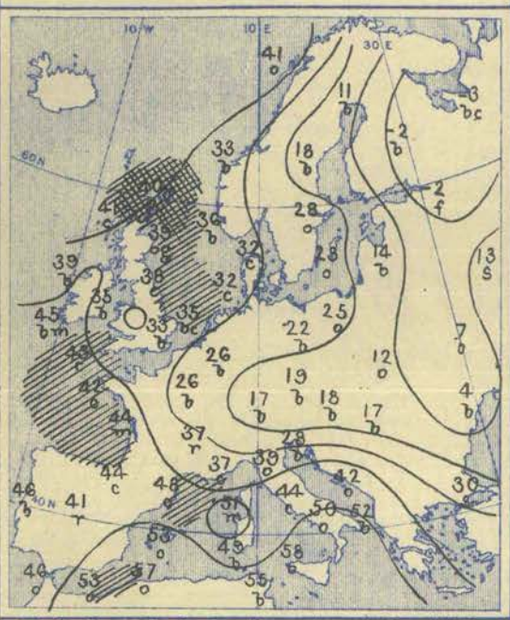
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

‡ The sunshine values given for London this week are the means of Bunhill Row and Kew only.

Sunday, 23rd February.

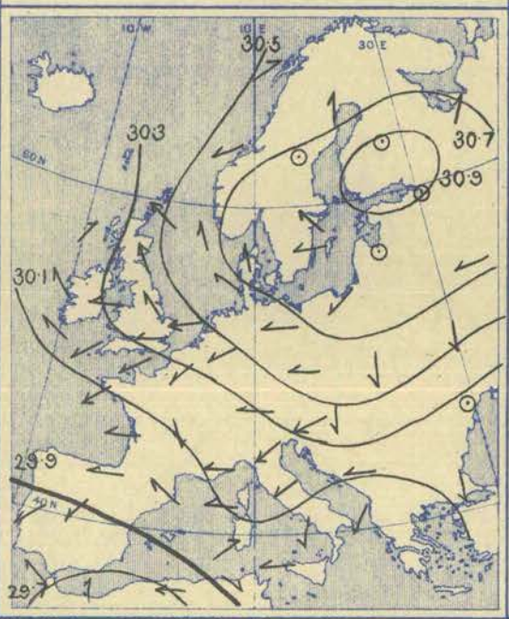
Temperature and Weather.

8 a.m.

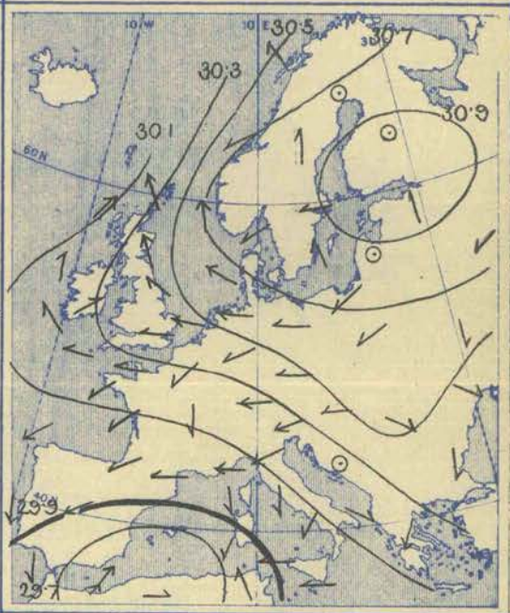


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the south of Sweden and the central and southern parts of Russia, with snow at Moscow and Kharkov, as well as at Constantinople. Dull also over Spain and Italy, with rain at Madrid. Heavy rain falling later in Algeria, and slight amounts over central Italy; no important change occurring elsewhere.

Temperature fallen in most countries, but risen in Italy. Morning readings highest, 58° at Palermo, 57° at Algiers, and 55° at Tunis; above 50° at many of the Mediterranean and Spanish coast stations. Lowest, – 3° Fahr. at Archangel, – 2° at Kuopio and St. Petersburg, + 4° at Odessa, and 7° at Kiev; considerably below the freezing point over Sweden, Germany, and Austria, and a little below it over the central parts of England and France. Daily maxima below 45° in most parts of Great Britain, and below 40° on the south-east coasts of England. Thermometer exceeding 50° over southern Europe generally, and exceeding 60° in Spain and southern Italy. Sharp frost occurring over Great Britain at night.

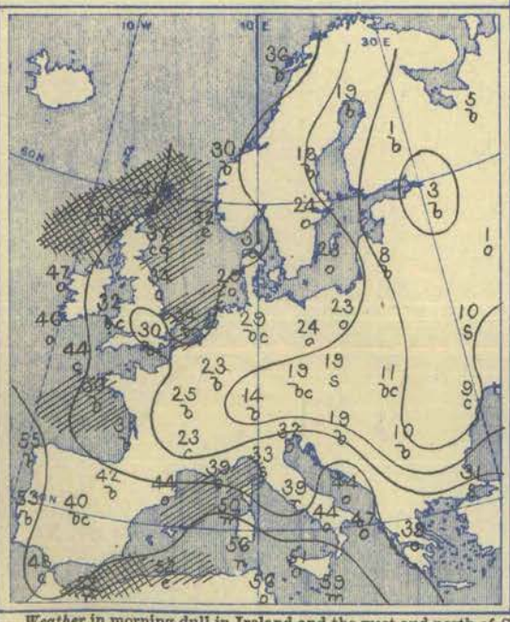
Wind light to moderate from the Eastward over England, France, and Germany, but South-Easterly in Ireland and Scotland, with a gale at Wick. Southerly or South-Westerly over the extreme northern parts of Scandinavia and Russia. Calm or variable over the central and southern parts of Russia; North-Easterly over Italy and the Spanish Peninsula. Subsequently increasing to a gale from the Southward or South-Eastward in the north of Scotland generally; no important change occurring elsewhere.

Barometer highest, 30·9 ins. and upwards over Finland; 30·3 ins. and upwards in an anticyclone embracing the whole of northern, eastern, and central Europe, and extending westwards over all but the southern parts of Great Britain. Lowest, 29·7 ins. and less in a depression over Algeria; 29·9 ins. and less in a shallow disturbance off the south of Italy. Algerian depression subsequently spreading northwards over the Mediterranean; new disturbance beginning to appear off the north-west of Scotland.

Monday, 24th February.

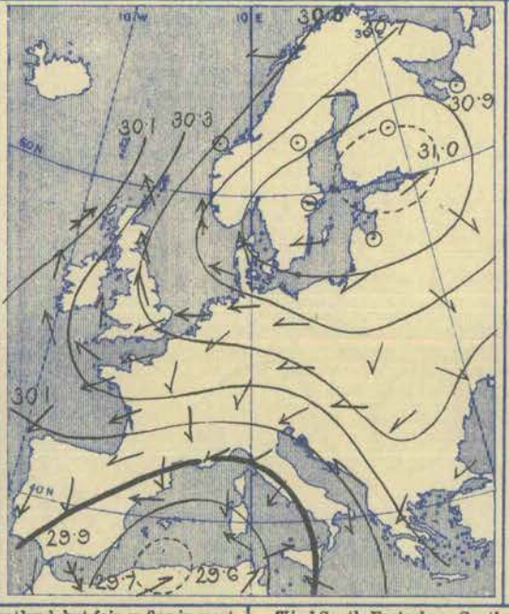
Temperature and Weather.

8 a.m.

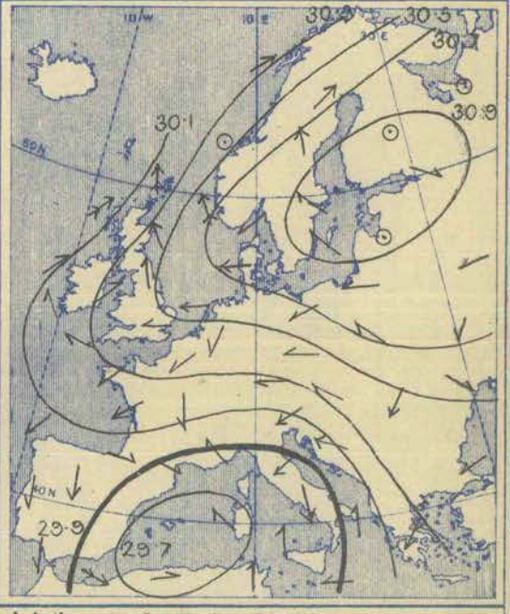


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in Ireland and the west and north of Scotland, but fair or fine in most other parts of the United Kingdom. Fine over the greater part of the Continent, but overcast in Denmark and the south of Scandinavia, as well as over Italy and the Mediterranean; rain falling at Rome and Cagliari, and snow at Florence and Leghorn, as well as at Constantinople. Heavy rain falling later in Algeria and the extreme south of France; no important change occurring elsewhere.

Temperature fallen generally, but risen slightly at some of our own western and northern stations. Morning readings highest, 59° at Malta, 56° at Cagliari and Tunis, and 55° at Corunna; above 50° at many of the Mediterranean and Spanish coast stations. Lowest, – 3° Fahr. at St. Petersburg, + 1° at Kuopio and Moscow, and 5° at Archangel; considerably below the freezing point over Sweden, Russia, and central Europe, and also over central England. Daily maxima below 45° over the greater part of the United Kingdom, and below 40° on our east and south-east coasts. Thermometer reaching 50° or more at some of the western and southern French stations; exceeding 60° over Spain and southern Italy.

Wind South-Easterly or Southerly in the west and north of our Islands, and strong to a gale in force in the north of Scotland, as well as in the south-west of Norway. Easterly or North-Easterly in most other parts of our Islands and the Continent, and strong in force at several of the Mediterranean and Adriatic stations. Calm or variable over central Sweden and the northern and central parts of Russia. No important change occurring during day.

Barometer highest, 31·0 ins. to 31·02 ins. over the south of Finland and the neighbouring parts of the Baltic provinces; 30·3 ins. and upwards in an anticyclone embracing the whole of northern, central, and eastern Europe, and extending westwards over all but the extreme northern and north-western parts of the United Kingdom. Lowest, 29·6 ins. and less in a well-marked depression over Algeria; 30·1 ins. and less in an area lying to the north-west of our Islands. Algerian depression subsequently moving northwards, but becoming somewhat shallower; disturbance off our north-west coasts spreading slowly eastwards.

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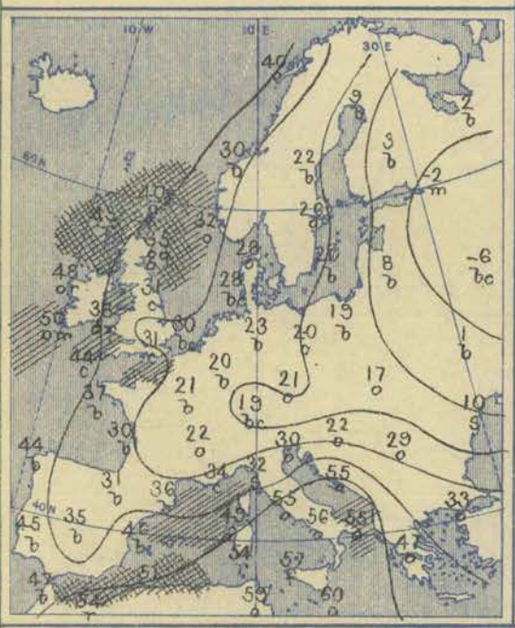
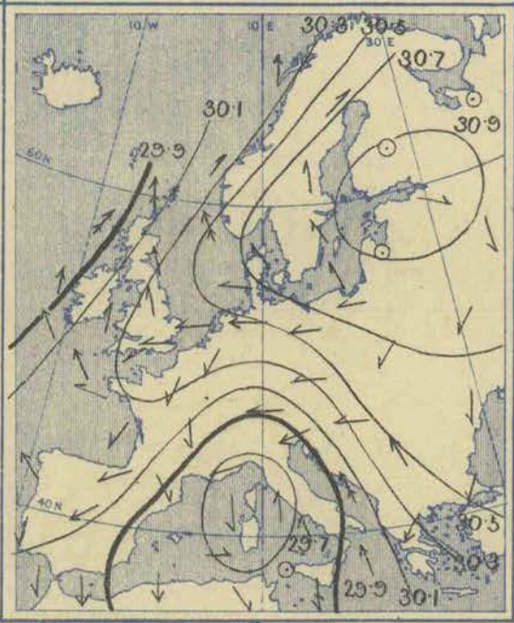
Tuesday, 25th February.

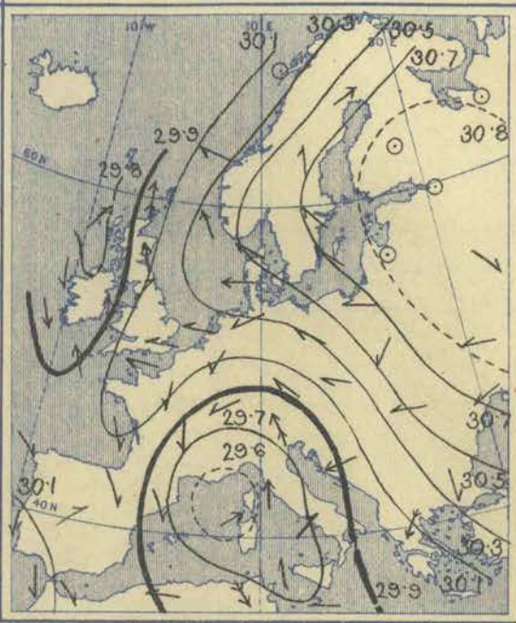
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the west and north of our Islands, with rain at Stornoway and Belmullet. Fair or fine over England, and the western and northern parts of the Continent generally, but dull in the south of Scandinavia. Dull and unsettled over central and southern Europe and the Mediterranean, with snow in Austria, northern Italy, and the south of France, and rain at Athens. Heavy rain falling during day in Ireland and the west of Scotland, as well as in central Italy—as much as 1·8 ins. at Naples.

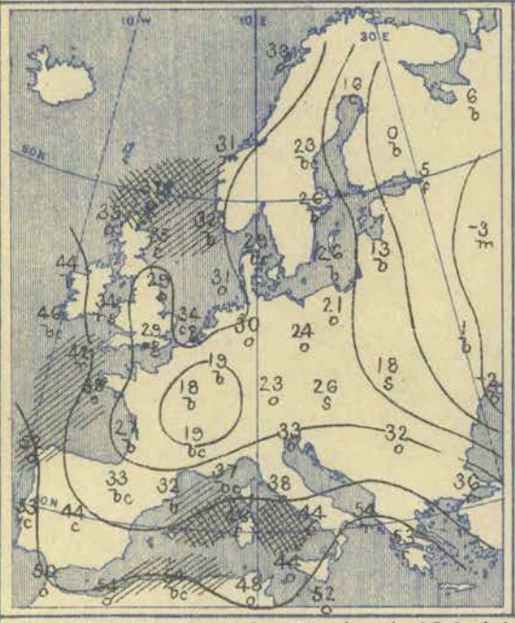
Temperature risen in Ireland and also in Sweden, Austria, Italy, and Greece. Morning readings highest, (1) 60° at Malta, 59° at Sfax, and 57° at Palermo; above 50° at most of the Mediterranean stations; (2) 50° at Valencia (Ireland), and 48° at Belmullet and Roche's Point. Lowest, – 6° Fahr. at Moscow, – 4° at Kharkov, – 2° at St. Petersburg, and + 1° at Kiev; considerably below the freezing point over Germany, the Netherlands, and central France, and 5° or 6° below it over central England. Daily maxima below 40° in many parts of Great Britain; below 35° at some of the English stations, and below the freezing point over central France. Reaching 60° or more in the southern parts of Spain and Italy.

Wind fresh or strong from the Southward or South-Eastward in the west and north of our Islands, with a gale in the north of Scotland and also at Skudesnaes. Moderate from the same quarters in Sweden. Moderate to fresh from the Eastward or North-Eastward in the south of our Islands, and also over the greater part of central and southern Europe, but strong to a gale from the Southward or South-Eastward over the Adriatic. Subsequently increasing to a moderate gale from the Southward on many parts of our western coasts, but shifting to the Northward in the west of Ireland.

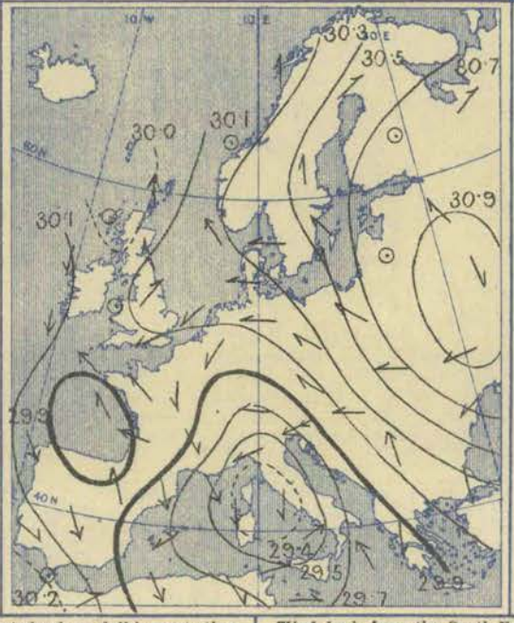
Barometer highest, 30·9 ins. and upwards over Finland and the Baltic provinces; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of northern and eastern Europe, and extending westwards over England. Lowest, 29·7 ins. and less in a well-marked depression lying over Corsica, Sardinia, and the neighbouring parts of France and Italy; 29·8 ins. and less in another disturbance to the westward of our Islands. Latter system advancing later as a "V shaped" depression directly over our western coasts, and barometer rising again in the west of Ireland.

Wednesday, 26th February.

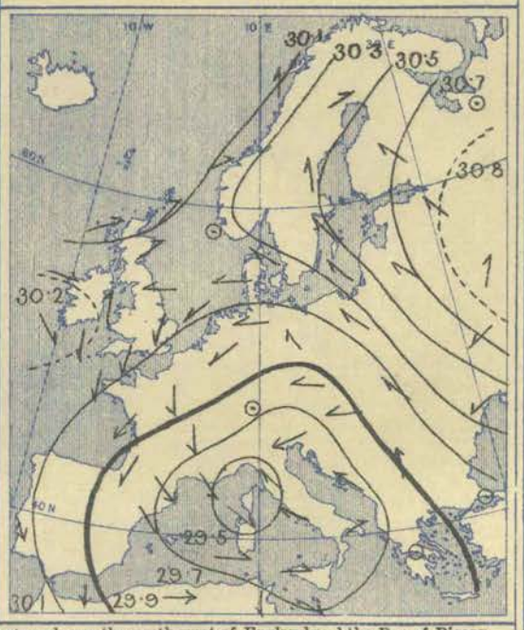
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the west and south of Ireland, but cloudy or dull in most other parts of the United Kingdom, with a little rain or snow in places. Fine over the western and northern parts of the Continent as a whole, but dull in the central and southern countries, with rain in many places, and with snow at Belfort, Turin, Vienna, and Lemberg. A little rain falling later at several of our own western stations, and slight snow in isolated parts of Great Britain, but sky clearing over the northern parts of Ireland and Scotland.

Temperature fallen in our Islands and France, but risen in most other countries. Morning readings highest, (1) 54° at Brindisi, Oran, and Algiers, 53° at Lisbon and Patras, and 52° at Corunna; (2) 46° at Valencia (Ireland), and 44° at Belmullet. Lowest, – 5° Fahr. at Kharkov, – 3° at Moscow, – 2° at Nicolaieff, and + 1° at Kiev; below the freezing point over northern, eastern, and central Europe generally, and also over the eastern and central parts of Great Britain. Daily maxima below 40° in the last-mentioned localities, and below the freezing point in many parts of central France, but thermometer reaching 50° at some of our western stations.

Wind fresh from the South-Eastward over the south-west of England and the Bay of Biscay, but Northerly in Denmark, and North-Westerly over the Spanish Peninsula and the south of France. Southerly on most parts of our northern coasts, and also in the north of Scandinavia. South-Easterly over Austria, eastern Germany, and the Baltic; North-Easterly over western Germany, the Netherlands, and the south-eastern parts of England; Northerly over central France. Rather variable in Italy, but blowing a gale from East at Trieste. Subsequently shifting to the Northward on our south-west coasts; veering to the South-Westward in Scotland.

Barometer highest, 30·9 ins. and upwards over central Russia; 30·2 ins. and upwards over northern and eastern Europe generally, as well as in another system lying off the south of Spain. Lowest, 29·4 ins. and less in a depression over northern and central Italy; 29·9 ins. and less in a shallow disturbance over the Bay of Biscay; 30·0 ins. and less in a still shallower system over the north of Scotland. New high-pressure system subsequently spreading eastwards over Ireland; depression over Bay of Biscay moving eastwards and filling up.

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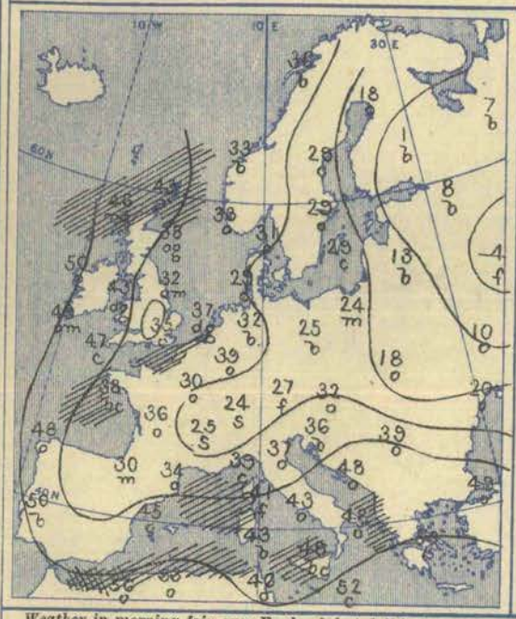
Thursday, 27th February.

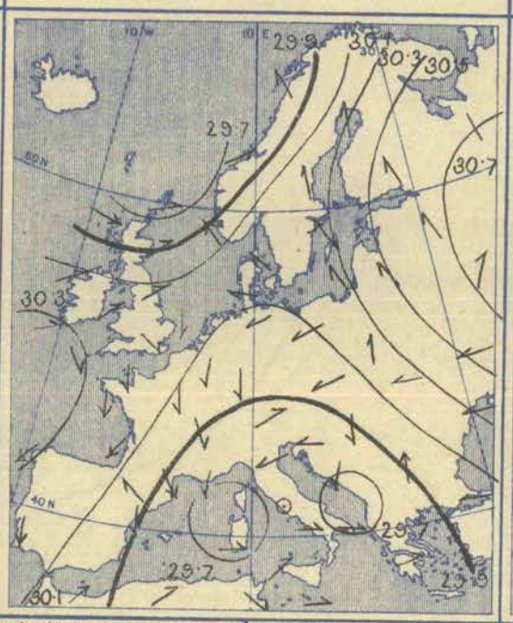
Temperature and Weather.

8 a.m.

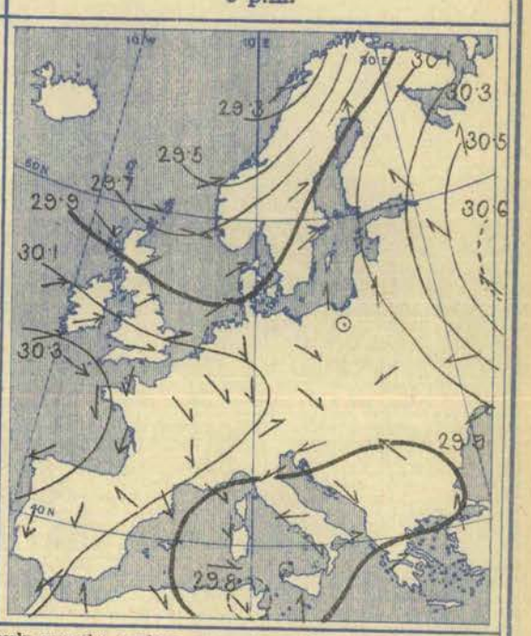


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over England, but dull in Ireland, and rainy in the west and north of Scotland. Fair over Denmark, north Germany, and the northern parts of Scandinavia and Russia, but dull over central and southern Europe generally, with rain and snow in the east and south of France. Rain falling later in the west and north of our Islands, and very slight amounts at some of the south-eastern stations; snow occurring in Scandinavia and Denmark.

Temperature risen generally. Morning readings highest, 56° at Oran, 53° at Algiers, and 52° at Malta; above 45° over the central and southern parts of the Mediterranean generally, and also at some of our own western stations. Lowest, − 4° at Moscow, + 1° at Kuopio and Kharkov, 7° at Archangel, and 8° at St. Petersburg; below the freezing point over northern and central Europe generally, and also over central England. Brisk rise taking place later over England, and thermometer exceeding 45° generally. Daily maxima below 40° at several of the southern French stations, but thermometer reaching 52° at Nice; exceeding 50° also in Spain and Italy.

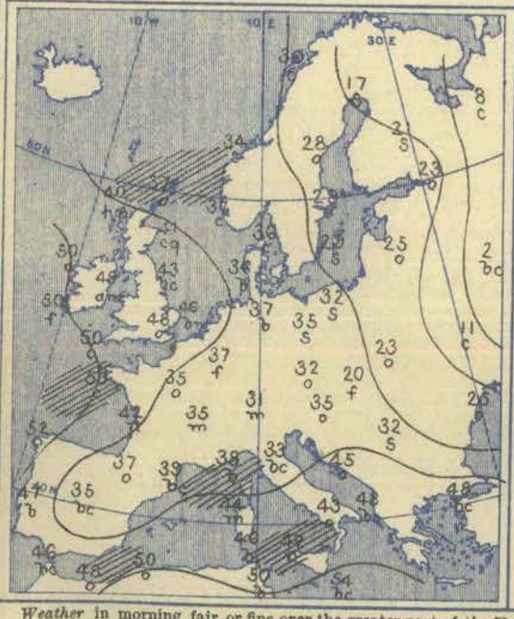
Wind Westerly or South-Westerly over the northern parts of our Islands, but Southerly or South-Easterly over Scandinavia, the Baltic, and northern Russia. Light from the North-Westward on our southern coasts; moderate to strong from the Northward over France and Spain; Easterly or North-Easterly over Germany and the south of Russia; light and variable over Austria and Italy. Subsequently backing to the Westward over the southern parts of our Islands. No important change occurring elsewhere.

Barometer highest, 30·7 ins. and upwards in an anticyclone over central Russia; 30·3 ins. and upwards in another system extending from the Atlantic over the extreme south of Ireland and the north-west of Spain. Lowest, 29·7 ins. and less in a large depression lying to the northward of our Islands, and also in two other systems lying respectively over the Adriatic and over Corsica and Sardinia. Depression in north subsequently spreading eastwards; barometer falling briskly in Scandinavia, but rising a little on our own northern coasts.

Friday, 28th February.

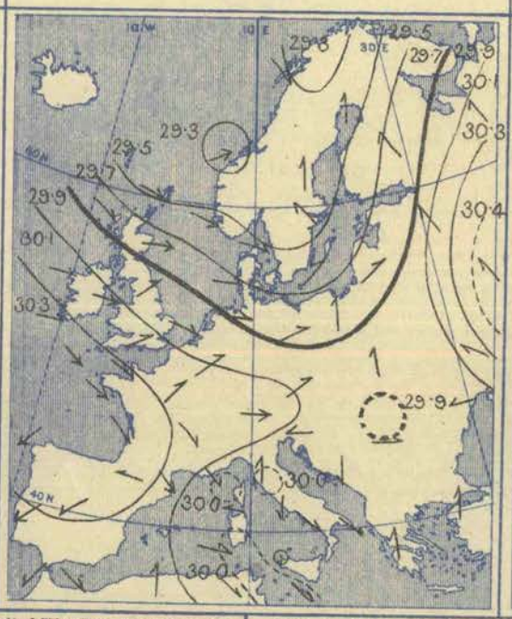
Temperature and Weather.

8 a.m.

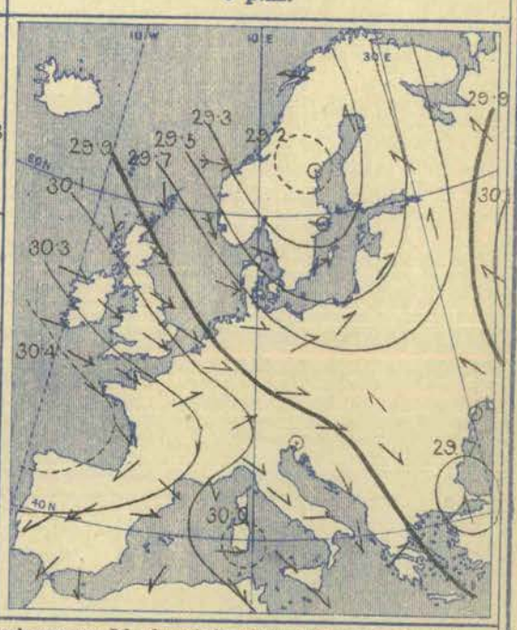


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of the United Kingdom, but showery in the extreme north-west. Fine over southern Europe generally, and also in Denmark; dull in other parts of the Continent, with rain or snow in many places. A little rain falling later over all but the extreme southern parts of our Islands, and snow in the north of Scotland; rain or snow occurring also over Germany, and the east and south of France. Thunder reported in the north-west of London during day.

Temperature risen generally, but fallen in the north of Scotland, and also at some of the Spanish and Italian stations. Morning readings highest, (1) 54° at Malta, 52° at Corunna, and 50° at Algiers and Sfax; (2) 50° at Belmullet, Valencia Island, Scilly, and Brest (above 45° at most of the English and Irish stations). Lowest, 2° at Moscow, 8° at Archangel and Kharkov, and 11° at Kiev; below the freezing point over northern and eastern Europe generally. Rising during day to between 50° and 55° over nearly the whole of Ireland, England, and the west and south of France, and reaching 56° at some of our own southern stations. Exceeding 60° in Spain and Sicily, and reaching 66° at Cagliari.

Wind Westerly or North-Westerly over our Islands and the eastern shores of the North Sea; moderate to fresh in force generally, but strong in the north of Scotland. Light to moderate from the South-Westward over Germany, and from the Southward or South-Eastward over Sweden and Russia. North-Westerly in Italy and the south of France, and North-Easterly over the Spanish Peninsula. Subsequently increasing to a gale from the North-Westward in the north of Scotland and the west of Norway; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone over central Russia, and also in another system extending from the westward over the Bay of Biscay and the north of Spain. Lowest, 29·4 ins. to 29·3 ins. and less in a large depression over Scandinavia; 30·0 ins. and less in a shallow system over the central parts of the Mediterranean. Northern disturbance subsequently moving eastwards, and barometer rising briskly on our northern coasts. Anticyclone over central Russia giving way.

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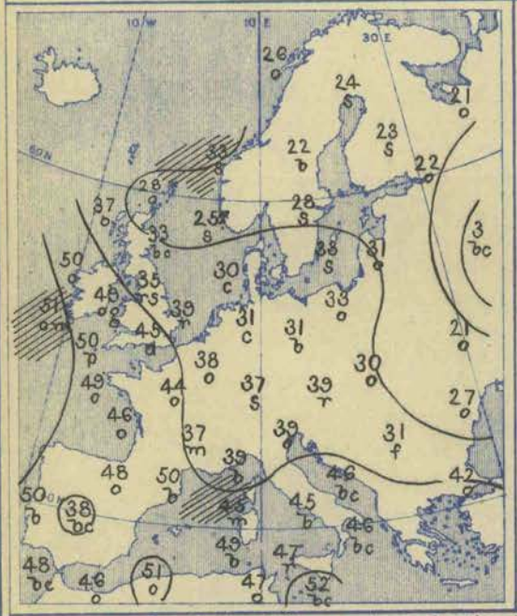
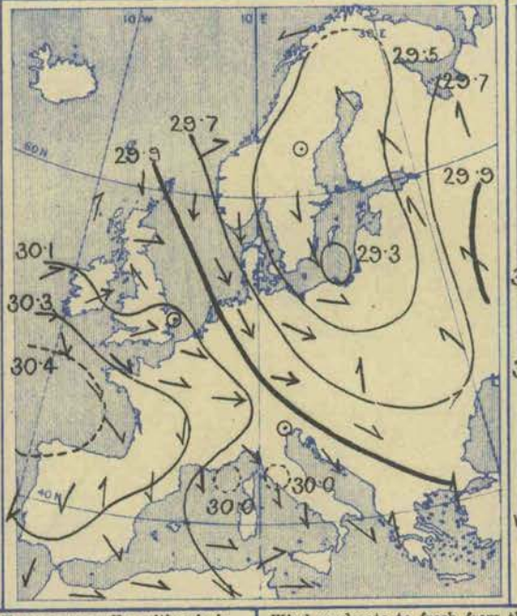
Saturday, 28th February.

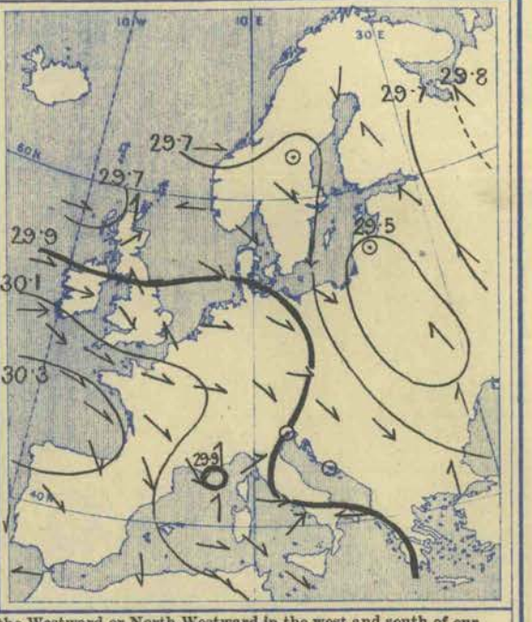
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western and northern Europe generally, with rain in many parts of Ireland and England, and with snow on our north-east coasts, as well as at several of the Scandinavian, Danish, Russian, and north German stations. Fine over central and southern Europe as a whole, but dull in Austria, with rain at Buda Pesth. Rain falling later in nearly all parts of our Islands, as well as at many of the French stations.

Temperature fallen over Great Britain, as well as in Scandinavia and Denmark, but risen in most other countries. Morning readings highest, (1) 56° at Oporto, and 52° at Barcelona and Malta; (2) 51° at Valencia and Roche's Point, and 50° at Belmullet, Scilly, Prawle Point, and Jersey (above 45° in the west and south of our Islands generally). Lowest, 3° at Moscow, 18° at Kharkov, 21° at Archangel and Kiev, and 22° at Hernösand, Karlstad, and St. Petersburg; below the freezing point over northern and eastern Europe generally, and also in the north of Scotland. Rising during day to 50° and upwards at many of the English and Irish stations, and reaching 55° at Roche's Point. Exceeding 60° over the Spanish Peninsula and the extreme south of France, and touching 66° at Cagliari.

Wind moderate to fresh from the Westward or North-Westward in the west and south of our Islands, as well as over the greater part of France and central Europe; rather variable over the northern parts of Great Britain. Northerly or North-Westerly over Denmark and the south of Scandinavia, but South-Easterly in Russia. Northerly (North-West to North-East) over southern Europe generally. Southerly or South-Easterly breezes setting in later over the eastern parts of Great Britain; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the Bay of Biscay; 29·9 ins. and upwards over central Russia. Lowest, 29·3 ins. to 29·4 ins. in a depression lying over the Baltic, the Gulf of Bothnia, and the neighbouring parts of Sweden and Russia. Depression subsequently moving south-eastwards to western Russia, but new disturbance beginning to approach Scotland from the westward, and barometer falling rather decidedly over our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the weather over nearly the whole of Europe was influenced by a large anticyclone, the central portion of which lay over Finland. The general conditions were therefore fair and dry, cold Easterly winds being reported over England and the more central parts of the Continent, but mild Southerly breezes in the west and north of our Islands.

On the 24th the weather over southern Europe began to be affected by a depression which advanced northwards from Algeria, while on the following day our own western coasts were influenced by a "V shaped" depression, which spread in from the Atlantic. The southern disturbance hung over the Mediterranean for three or four days, and occasioned heavy rain or snow over Austria, Italy, and the south of France. The depression in the west, after causing heavy rain and slight Southerly gales on our western and northern coasts, broke up entirely, and on the 26th a new anticyclone began to spread in from the Atlantic, the old one over northern Europe giving way and moving off to the eastward. During the remainder of the week the weather over the north-western countries was gradually brought under the influence of a depression, which moved south-eastwards across Scandinavia, the main disturbance being attended by secondary systems, which passed over our Islands and the North Sea. Westerly winds therefore set in generally, with mild, rainy weather over Ireland and England, and with sleet or snow in Scotland.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 50.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	16·6	− 0·7	23	0	EASTBOURNE	30·3	+ 8·0	41	+ 10
OSWALDKIRK (Yorkshire)	22·7	+ 4·5	31	+ 5	SOUTHPORT	10·3	?	14	?
WORKSOP	16·3	− 1·9	23	− 3	MANCHESTER (Oldham Road)	16·6*	?	23*	?
THURCASTON (Leicestershire)	25·5	+ 7·6	35	+ 10	TENBY	25·5*	− 0·1	34*	− 1
MARGATE	25·1	+ 4·0	34	+ 5	NEWQUAY	18·4	− 4·2	25	− 9
WESTBOURNE (Sussex)	34·8*	+10·3	47*	+ 15	TORQUAY	18·7*	− 8·4	25*	− 5
BRIGHTON	33·1	+ 9·3	45	+ 13	ARLEY COTTAGE (County Cavan)	17·9	− 0·2	25	0
					GUERNSEY	46·1*	+19·0	62*	+ 25

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 10.] *Third Series.* WEEK ENDING SATURDAY, MARCH 7TH, 1896. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 56.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	25	43·4	33·5	38·3	0 (average)	4	− 4	30	− 5	119	+ 52	127	−199
	1. SCOTLAND, EAST	52	25	45·2	32·5	38·7	1 above	9	− 3	34	− 4	116	+ 29	283	−143
	2. ENGLAND, N.E.	52	32	47·2	36·5	41·7	2 above	15	+ 2	22	− 9	106	+ 22	242	−131
	3. ENGLAND, EAST	55	32	49·1	36·9	42·8	3 above	27	+ 3	14	−21	116	+ 11	285	−141
	4. MIDLAND COUNTIES	55	32	48·7	37·9	43·2	4 above	26	+ 9	11	−23	149	+ 38	266	−156
	5. ENGLAND, SOUTH	55	33	49·7	39·1	44·3	3 above	28	+ 8	8	−19	153	+ 24	204	−136
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	28	46·5	36·4	41·3	2 above	13	+ 1	22	− 5	155	+ 55	159	−143
	7. ENGLAND, N.W.	52	31	47·5	38·8	43·0	3 above	20	+ 7	9	−17	162	+ 69	157	−155
	8. ENGLAND, S.W.	54	29	49·2	40·8	44·9	3 above	25	+ 5	3	−19	211	+ 52	136	−118
	9. IRELAND, NORTH	54	32	47·9	37·0	42·3	1 above	23	+ 7	14	− 9	224	+ 90	112	−151
	10. IRELAND, SOUTH	60	33	50·1	40·1	45·0	2 above	29	+ 6	5	−12	298	+ 96	74	−127
	—CHANNEL ISLANDS	54	36	51·2	44·2	47·6	3 above	39	+15	0	− 9	303	+ 85	39	− 76

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 56.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	25	15 more	50	− 1	13·8	+ 1·6	14	− 4	19	− 5	66	− 33	11	− 6
	1. SCOTLAND, EAST	6	7	2 more	36	− 3	3·5	− 2·5	30	+ 8	39	+10	129	− 5	22	0
	2. ENGLAND, N.E.	5	4	1 more	28	− 9	2·3	− 2·0	25	+ 4	32	+ 4	112	− 18	18	− 2
	3 ENGLAND, EAST	6	6	3 more	32	− 5	2·8	− 1·4	19	− 4	24	− 7	137	− 15	22	− 2
	4. MIDLAND COUNTIES	6	9	5 more	29	− 6	2·8	− 2·2	16	− 5	21	− 7	121	− 19	19	− 3
	5. ENGLAND, SOUTH	7	10	6 more	27	− 8	2·6	− 2·9	15	− 9	19	−13	129	− 24	20	− 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	21	14 more	45	+ 2	8·6	− 2·6	15	− 5	20	− 7	75	− 47	12	− 8
	7. ENGLAND, N.W.	7	16	12 more	36	− 3	5·5	− 0·7	14	− 6	18	− 8	77	− 34	16	− 5
	8. ENGLAND, S.W.	7	18	11 more	32	− 8	4·6	− 3·5	17	− 9	22	−13	137	− 33	21	− 5
	9. IRELAND, NORTH	7	20	14 more	39	− 6	6·8	− 0·7	10	−10	13	−13	101	− 34	16	− 6
	10. IRELAND, SOUTH	7	20	14 more	35	− 7	6·1	− 2·2	12	−11	16	−15	119	− 41	19	− 6
	—CHANNEL ISLANDS	7	13	7 more	35	−10	5·6	− 3·4	20	−12	26	−17	178	− 16	27	− 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was very unsettled in all parts of the Kingdom. Rain fell almost daily, and about the middle of the period, showers of snow, sleet, and hail were experienced. Thunder and lightning were very prevalent in the western, southern, and eastern districts on the 4th or 5th, while at night a brilliant display of aurora was observed in nearly all districts.

Temperature just equalled the mean value in Scotland N., but in all other districts it was above—the excess varying from 1° in Ireland N. and Scotland E., to 4° in the Midland counties. The highest of the maxima were recorded on the 1st in Scotland, but on the 6th or 7th over England and Ireland; they ranged from 60° in Ireland S., to 55° in the Midland counties, and England S. and E., and to 49° in Scotland N. The lowest of the minima were registered either on the 4th or 5th, and varied from 25° in Scotland N. and E., to 33° in England S. and Ireland S., and to 36° in the Channel Islands.

Rainfall exceeded the mean in all districts, the excess being very large in all except the north-eastern parts of the Kingdom. Over southern and central England the fall was more than twice as much as the mean, in the Irish districts more than three times, while in England N.W. it was four times as much as the normal.

Bright Sunshine exceeded the mean in the north-east of Great Britain, but was very little prevalent in the other parts of the Kingdom. The percentage of the possible duration ranged from 39 in Scotland E., and 32 in England N.E., to 19 in Scotland N. and England S., and to 13 in Ireland N.

Barometer and Wind.—During this period a series of large and rather deep depressions travelled from the westward over the extreme northern parts of our islands, while numerous secondary systems appeared further to the southward and eastward. South-Westerly to North-Westerly winds, varying greatly in strength, consequently prevailed over the United Kingdom. The disturbance of the 3rd and 4th caused a severe Westerly to North-Westerly gale over all the southern and western districts, and that of the 6th a moderate to fresh gale from the North-Westward in the north and north-west.

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II.—DATA from which the SUMMARY on page 55 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ‡	46	25	41·9	32·4	37·0	− 1·0	0	35	6	1·01	+0·33	*	*	*	*
	Stornoway	47	30	44·3	32·6	38·8	− 0·1	6	30	7	1·76	+0·89	21·5	+ 1·5	29	+ 1
	Wick	46	29	42·6	31·7	37·0	− 1·4	2	35	7	1·57	+1·05	*	*	*	*
	Glencarron ‡	46	30	42·1	33·1	37·5	− 0·3	0	31	7	4·44	+3·03	*	*	*	*
	Fort Augustus ‡	48	28	44·8	33·5	39·0	+ 0·2	8	31	6	2·52	+1·64	7·3	− 7·2	10	− 9
	Fort William ‡	49	33	44·9	36·6	40·6	+ 1·0	8	20	7	3·57	+1·95	13·1	− 5·6	17	− 8
1. SCOTLAND, E.	Nairn	48	29	44·7	32·0	38·2	− 0·6	8	36	6	0·90	+0·44	*	*	*	*
	Aberdeen	51	27	45·9	33·4	39·5	+ 0·8	11	32	6	0·78	+0·28	38·3	+14·7	51	+19
	Braemar ‡	42	25	40·5	31·1	35·6	+ 0·6	0	45	6	0·83	+0·20	30·3†	+ 7·1†	40†	+ 9†
	Ochtertyre ‡	52	26	47·6	32·7	39·9	+ 1·9	16	35	6	0·79	+0·19	*	*	*	*
	Leith ‡	50	29	47·0	33·1	39·8	− 0·2	14	33	6	0·65	+0·37	*	*	*	*
	Marchmont ‡	50	28	45·7	32·7	39·0	+ 1·3	10	34	5	0·45	−0·06	28·3	+ 7·0	38	+10
2. ENGLAND, N.E.	Alnwick Castle	49	33	44·7	36·0	40·2	+ 1·4	8	22	4	0·53	+0·05	*	*	*	*
	Durham	52	32	47·7	35·5	41·4	+ 2·8	16	25	6	0·33	−0·08	26·8	+ 4·8	35	+ 6
	Shields	52	34	47·6	35·9	41·6	+ 1·9	16	24	5	0·21	−0·11	*	*	*	*
	Scarborough ‡	52	33	47·5	36·5	41·8	+ 1·9	15	22	5	0·39	+0·01	*	*	*	*
	York	52	34	49·3	37·0	43·0	+ 3·3	28	14	7	0·54	+0·19	22·5	+ 1·7	30	+ 3
	Spurn Head	50	35	46·3	37·9	42·0	+ 2·5	12	11	5	0·53	+0·22	*	*	*	*
3. ENGLAND, E.	Hillington ‡	52	33	48·6	36·8	42·5	+ 3·3	25	15	6	0·65	+0·30	20·5	− 2·5	27	− 3
	Yarmouth	51	33	47·4	36·4	41·7	+ 2·8	15	22	7	0·49	+0·14	*	*	*	*
	Geldeston	52	32	49·3	36·0	42·5	+ 2·8	29	17	6	0·70	+0·43	21·5	− 2·7	28	− 4
	Cambridge	55	33	50·7	37·3	43·8	+ 3·8	32	13	4	0·47	+0·19	19·3	− 3·9	25	− 7
	Rothamsted	52	33	49·3	38·2	43·6	+ 4·3	27	11	5	0·81	+0·43	13·4	− 9·6	17	−14
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	35	48·6	37·7	43·0	+ 3·4	25	12	4	0·22	−0·06	*	*	*	*
	Loughborough	53	35	49·6	38·9	44·1	+ 3·9	28	9	7	0·82	+0·49	*	*	*	*
	Stamford (Ketton Hall)	55	33	50·3	37·4	43·7	+ 3·9	31	13	7	0·64	+0·35	*	*	*	*
	Cheadle ‡	49	33	46·0	35·9	40·8	+ 2·9	11	23	7	1·31	+0·84	*	*	*	*
	Solihull	53	33	48·2	37·4	42·6	+ 2·8	24	13	7	1·11	?	*	*	*	*
	Churchstoke ‡	52	35	47·9	37·8	42·7	+ 3·4	23	12	7	1·31	+0·86	17·4	− 4·6	23	− 6
	Hereford ‡	54	35	49·8	39·6	44·6	+ 4·3	28	7	6	0·61	+0·26	*	*	*	*
	Cirencester	53	32	48·6	37·7	43·0	+ 3·7	25	12	6	1·01	+0·58	11·0	−12·1	14	−17
	Oxford	52	35	49·4	39·0	44·1	+ 3·8	27	8	6	0·74	+0·39	14·3	− 8·2	19	−10
5. ENGLAND, S.	London	54	34	50·3	38·4	44·2	+ 3·2	31	10	7	1·22	+0·92	8·5†	− 6·3†	11†	− 9†
	North Foreland	54	34	49·6	38·1	43·7	+ 3·0	28	11	6	0·57	?	*	*	*	*
	Strathfield Turgiss ‡	55	34	50·8	37·7	44·1	+ 4·1	33	12	6	0·97	+0·64	*	*	*	*
	Dungeness	51	36	48·6	39·0	43·7	+ 3·6	25	8	6	0·78	+0·46	*	*	*	*
	Hastings (St. Leonards)	51	35	49·7	39·1	44·2	+ 3·5	28	8	7	1·03	+0·63	13·4	−13·9	17	−18
	Southampton	55	35	51·6	40·0	45·6	+ 3·8	34	6	7	1·06	+0·61	15·1	− 9·9	20	−14
	Hurst Castle	50	38	4·1	41·4	44·7	+ 3·7	21	2	6	1·12	+0·74	*	*	*	*
	Stowell ‡	54	33	49·1	39·2	44·0	+ 2·5	26	8	7	1·48	+0·96	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	50	29	48·5	35·9	42·0	+ 1·1	18	17	7	2·66	+1·28	*	*	*	*
	Glasgow	49	28	45·0	35·3	40·0	+ 0·9	8	25	6	2·00	+1·45	13·8	− 2·2	18	− 4
	Ardrossan	50	32	45·9	36·7	41·2	+ 0·9	11	21	6	1·68	+1·20	*	*	*	*
	Glenlee ‡	49	32	45·6	3 ·2	40·3	+ 2·0	10	26	7	3·28	+2·45	*	*	*	*
	Douglas (Isle of Man)	52	36	47·7	38·9	43·2	+ 2·4	21	9	7	1·06	+0·49	16·3	− 8·3	21	−11
7. ENGLAND, N.W.	Stonyhurst	48	33	45·0	37·5	41·1	+ 2·1	8	17	7	2·95	+2·23	16·2	− 3·9	21	− 6
	Blackpool ‡	50	31	47·1	37·6	42·2	+ 2·5	20	12	7	1·10	+0·70	14·0	− 6·0	18	− 9
	Manchester (Prestwich)	51	34	47·4	37·1	42·1	+ 2·8	21	14	7	1·91	+1·47	15·4	?	20	?
	Liverpool Obsy. (Bidston)	52	36	48·1	39·6	43·7	+ 2·7	22	7	7	1·10	+0·79	*	*	*	*
	Llandudno ‡	51	37	48·6	40·3	44·3	+ 2·3	23	5	7	1·58	+1·19				
	Holyhead	52	37	48·6	40·6	44·5	+ 2·6	23	4	6	1·21	+0·73	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	33	49·3	38·6	43·8	+ 2·0	27	10	7	1·98	+1·16	*	*	*	*
	Pembroke	50	34	48·0	41·7	44·3	+ 2·8	21	1	6	1·15	+0·05	15·3	−11·3	20	−14
	Bristol (Montpelier)	52	36	48·8	41·6	45·1	+ 3·5	23	1	7	1·33	+0·88	*	*	*	*
	Arlington (N. Devon)	52	29	47·9	37·0	42·3	+ 1·6	23	14	7	3·68	+2·79	*	*	*	*
	Cullompton ‡	54	34	50·0	41·1	45·4	+ 3·4	28	3	7	1·54	+0·85	15·3	− 8·9	20	−12
	Falmouth	53	36	50·9	42·8	46·7	+ 3·1	33	0	6	1·32	+0·45	20·5	− 6·5	27	− 8
	Plymouth	53	36	50·6	42·5	46·4	+ 3·7	31	0	7	1·45	+0·89	16·4	−10·3	21	−14
	Prawle Point	50	34	48·3	41·3	44·7	+ 2·7	22	2	7	1·53	+1·11	*	*	*	*
9. IRELAND, N.	Malin Head	50	34	46·1	37·3	41·6	− 0·4	11	19	7	2·08	?	*	*	*	*
	Londonderry	51	32	47·3	37·0	42·0	+ 0·7	15	14	7	2·58	+2·08	*	*	*	*
	Edenfel (Omagh)	53	32	46·6	35·1	40·7	+ 1·0	13	26	7	1·99	+1·49	*	*	*	*
	Belmullet	52	37	49·4	40·9	45·0	+ 1·7	26	3	7	2·63	+1·73	*	*	*	*
	Markree Castle	54	33	49·5	37·5	43·3	+ 2·7	28	13	7	2·36	+1·71	9·8	−10·9	13	−14
	Brookeborough												*	*	*	*
	Armagh	51	32	48·2	35·7	41·8	+ 1·8	17	25	7	1·20	+0·66	9·8	−10·2	13	−13
	Donaghadee	53	33	48·1	36·9	42·3	+ 1·2	24	14	7	0·80	+0·40	*	*	*	*
	Edgeworthstown	52	32	48·3	35·3	41·6	+ 1·3	18	26	7	1·97	+1·43	*	*	*	*
10. IRELAND, S.	Dublin	55	35	50·3	38·5	44·2	+ 1·8	30	10	7	1·08	+0·64	16·4	− 6·9	22	− 9
	Parsonstown	54	33	48·4	37·6	42·8	+ 1·7	24	12	7	2·24	+1·76	11·4	−10·6	15	−13
	Kilkenny	55	34	49·1	39·6	44·2	+ 1·6	25	7	6	1·91	+1·43	*	*	*	*
	Roche's Point	56	36	50·6	41·7	46·0	+ 2·3	29	1	7	1·12	+0·30	*	*	*	*
	Valencia	54	36	50·6	42·7	46·5	+ 1·6	32	0	7	2·44	+1·54	8·2	−16·8	11	−22
	Killarney	60	36	51·8	40·5	46·0	+ 2·0	34	4	7	2·46	?	*	*	*	*
	Foynes	?	35	?	41·7	?	?	?	?	7	2·64	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	36	51·3	43·4	47·2	+ 1·8	36	0	7	1·32	+0·78	25·5	?	33	?
	Jersey	53	38	51·1	44·9	47·9	+ 4·2	41	0	7	1·20	+0·68	14·5	−15·5	19	−21

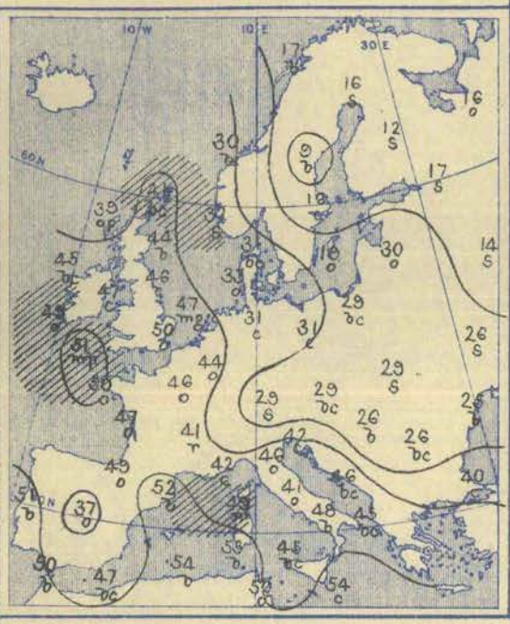
Stations marked ‡ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

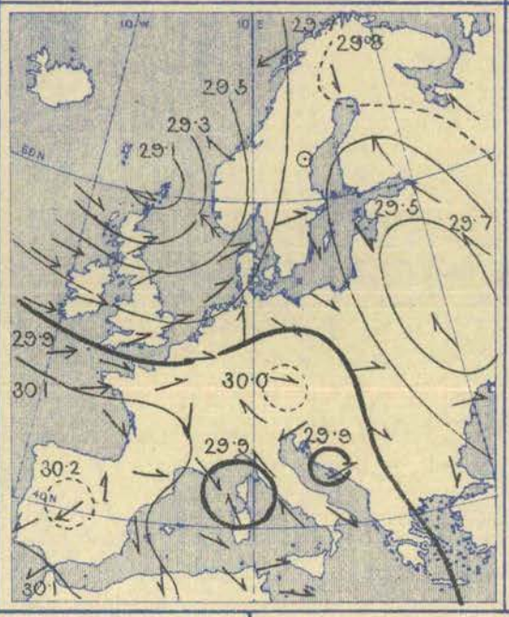
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 1st March.

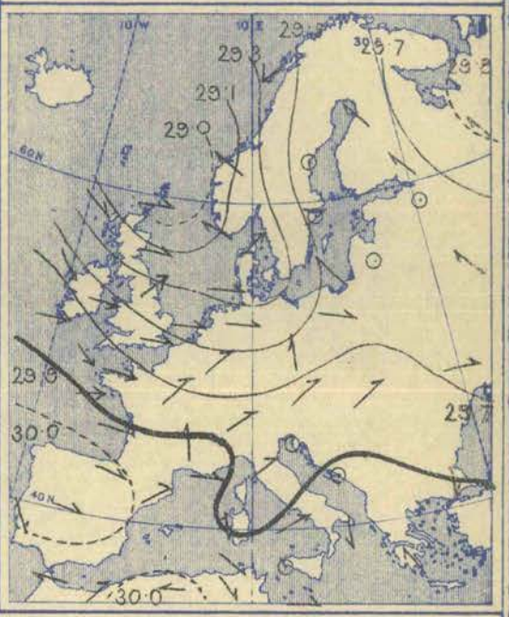
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright on the coasts of the Iberian Peninsula, the southern parts of the Mediterranean, many parts of central and south-eastern Europe and over Scandinavia; temporarily fine over the northern parts of the British Isles also. Very changeable elsewhere, with rain in many parts of England and the north of France; snow over the greater part of Russia and Finland. Some rain later all over the United Kingdom, and many parts of France and the Netherlands; snow over eastern and northern Europe.

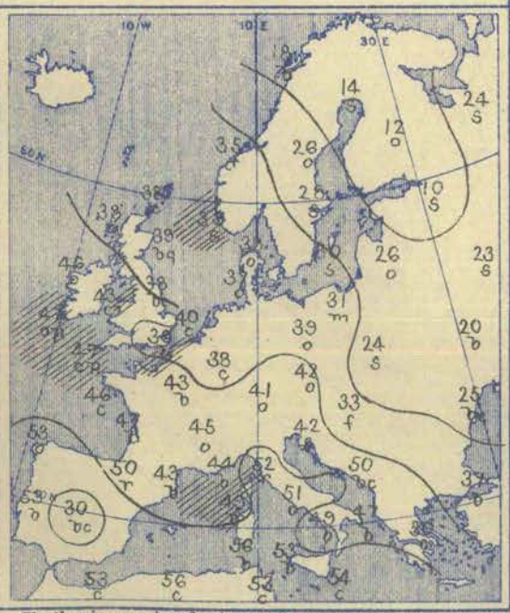
Temperature changing abruptly; risen over Great Britain, fallen over Ireland, northern and central Europe. Highest, 54° at Malta, 53° at Cagliari, 52° at Barcelona, 50° at Brest and in London, 49° at Valencia (Ireland), 47° at Holyhead. Lowest, 9° at Hernösand, 11° at Karlstad, 14° at Moscow, 16° at Archangel, Haparanda, and Stockholm, 17° at Bodö, 29° at Munich, 31° at Berlin. Rising later to 50° and more over many parts of our Islands, to more than 60° in the south of France, and to 66° at Cagliari and Algiers.

Wind (1) Westerly and South-Westerly (cyclonic) over the British Islands, but South-Easterly in the west of Norway; (2) North-Westerly to Westerly over Germany, but Southerly to South-Easterly over central Russia; (3) a separate cyclonic circulation of moderate winds prevalent over the northern parts of the Mediterranean and Adriatic; (4) anticyclonic breezes prevalent over the Spanish Peninsula and south-west of France. Wind veering more to the North-Westward over the British Islands later, and the circulations over Russia and the Mediterranean dying out.

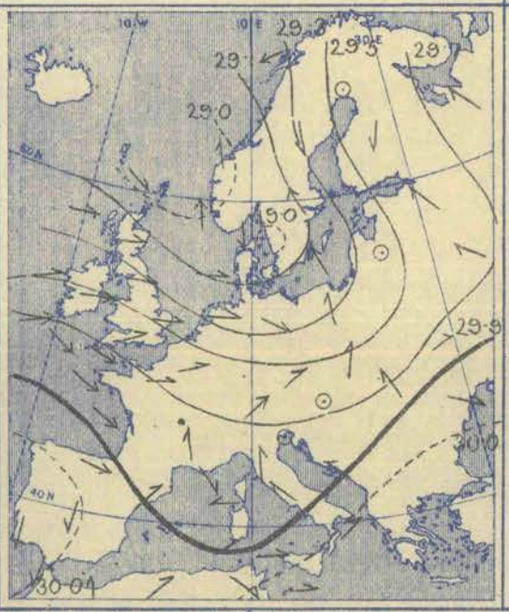
Barometer in morning highest, 30·2 ins. and more to 30·0 ins. over Spain and the south-western half of France, and exceeding 29·8 ins. over northern Europe. Lowest, below 29·1 ins. over the Shetland Isles; below 29·4 ins. over western Russia, and below 29·9 ins. over Corsica and Dalmatia. A small disturbance, secondary to that over the Shetlands, appearing over Denmark later; Russian and Mediterranean disturbances filling up.

Monday, 2nd March.

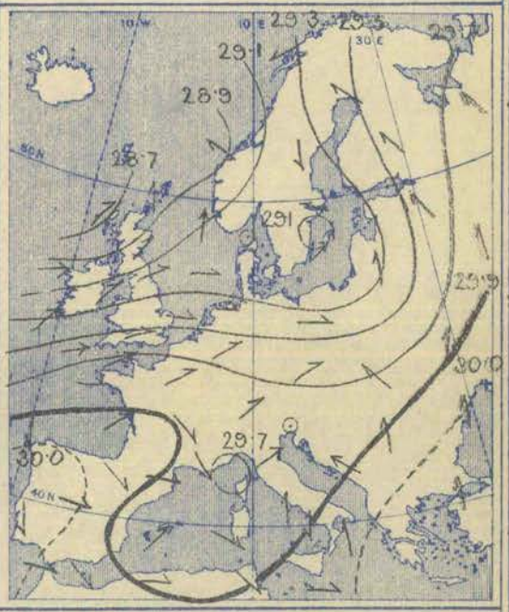
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in all the more eastern parts of the United Kingdom, but showery in the west and extreme north, with sleet at Wick. Fine over the greater part of France, and also in Spain and southern Italy; dull in nearly all other parts of the Continent, with rain over northern Italy, and also at Belfort and Biarritz, snow falling at many of the Scandinavian stations. Rain spreading eastwards later over north-western Europe generally—amounts rather large at some of our western and southern stations, the Netherlands, and some parts of France; snow at some German and Russian stations.

Temperature risen in Scandinavia, Denmark, Germany, and Italy, but fallen in most other countries. Morning readings highest, 56° at Cagliari and Algiers, 54° at Malta, and 53° at Corunna, Lisbon, Barcelona, Palermo, Nemours, and Sfax. Lowest, 10° at St. Petersburg, 12° at Kuopio, 14° at Haparanda, and 15° at Ulcaborg; below the freezing point over Sweden and Russia generally, and also over central Spain. Daily maxima over our Islands ranging in most cases between 45° and 49°, but exceeding 50° at some of our extreme southern stations, and rising to 55° in the south of France, 61° at Nice and at Lisbon, 66° at Palermo and Algiers.

Wind moderate to strong from the Westward over our Islands, Denmark, and the Netherlands, and from the North-Westward in the west and south of France; South-Westerly in Germany and the south of Russia; South-Easterly over central and northern Russia and the greater part of Scandinavia, and strong in force in the south of Sweden. South-Easterly over Italy and the Adriatic, but Northerly over the Spanish Peninsula. Subsequently backing to the South-Westward over western Europe generally, and increasing to a gale in Ireland, England, and the north of France.

Barometer highest, 30·0 ins. and upwards to 29·9 ins. in a large area lying over south-eastern Europe and the eastern parts of the Mediterranean, and also in another system over the Spanish Peninsula; 30·34 ins. in the Azores. Lowest, 29·0 ins. and less in a large but somewhat shallow depression lying over the Shetland Isles and west of Norway. New and deeper disturbance subsequently advancing from the Atlantic to our own northern coasts, and barometer falling briskly over the whole of our Islands.

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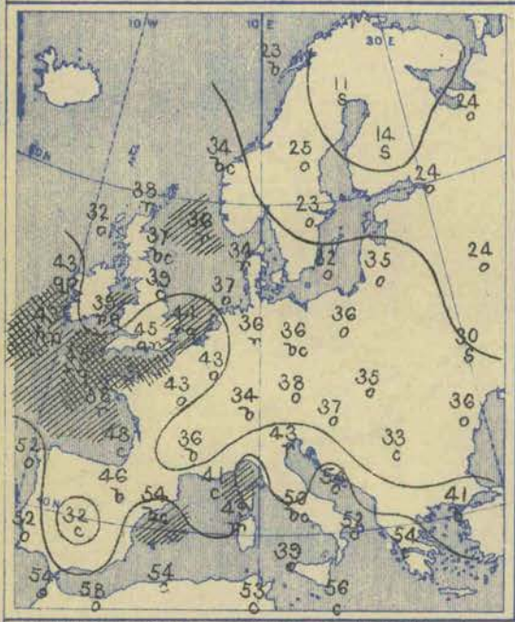
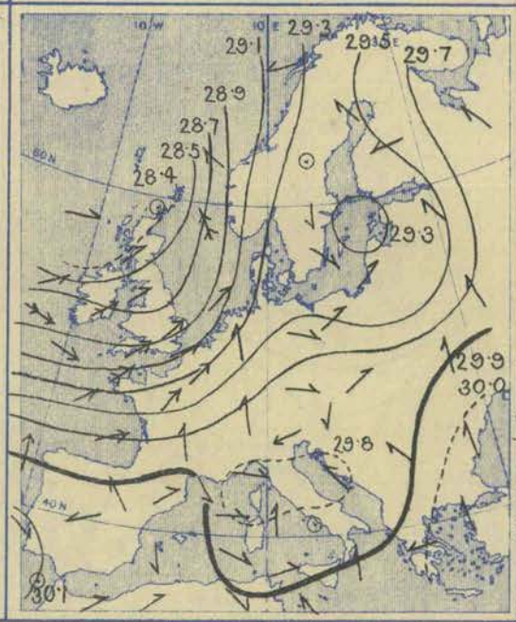
Tuesday, 3rd March.

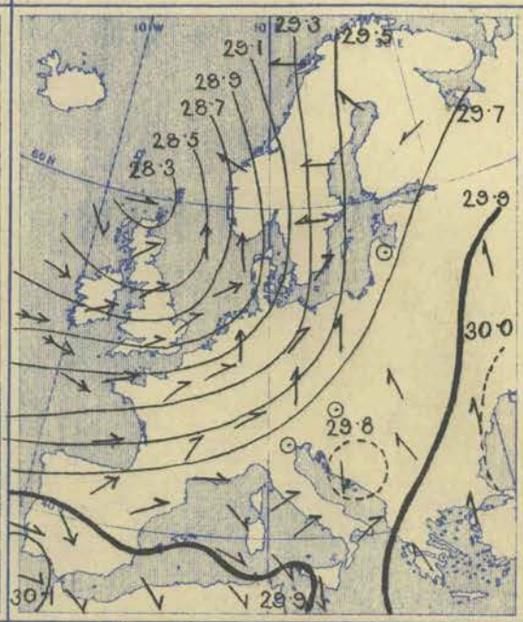
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean as a whole, as well as in several parts of Scotland and the north-west of Norway; fair over Germany; very rough and unsettled over Ireland, England, and their neighbourhood; unsettled over the Baltic and Finland, with snow at Hangö and Helsingfors. Rain, hail, or snow falling later over nearly all parts of the Kingdom, north-western Europe, some eastern parts of France, and the north of Italy; largest amounts, 0·7 in. at Belmullet, 0·6 in. at Malin Head, and 0·5 in. at Florence, Parsonstown, and Karstad. Thunder and lightning occurring in the west and south of the British Isles.

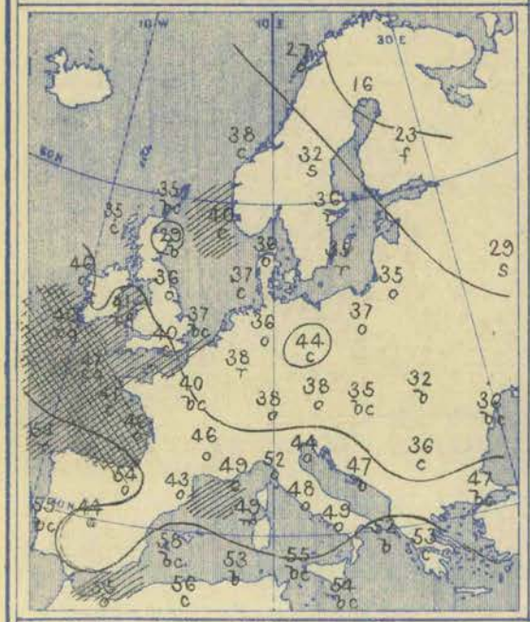
Temperature falling at all our western and northern stations, and over central Europe. Highest, 58° at Oran, 56° at Malta, 52° at Lisbon and Corunna, 50° at Brest. Lowest, 8° Fahr. at Uleaborg, 14° at Kuopio, 24° at Archangel, Moscow, St. Petersburg, and Hangö, 18° at Kharkov, 32° to 39° at the Scotch stations, and in the north of Ireland. Continuing to fall unsteadily over north-western Europe later; not touching 60° even in the south of France, but touching 66° at Palermo, 70° at Algiers. Sharp frost at night over several parts of the British Islands.

Wind (1) light and very variable over the Mediterranean and southern Europe; Westerly and South-Westerly over Germany; Southerly to Easterly over Russia and Finland; (2) blowing a gale from between North-West and South-West at our western stations, and from between West and South over England; Westerly light in the north of Scotland. South-Easterly fresh to a gale in the west of Norway. Gales continuing in the west and north during the day, but moderating in the east.

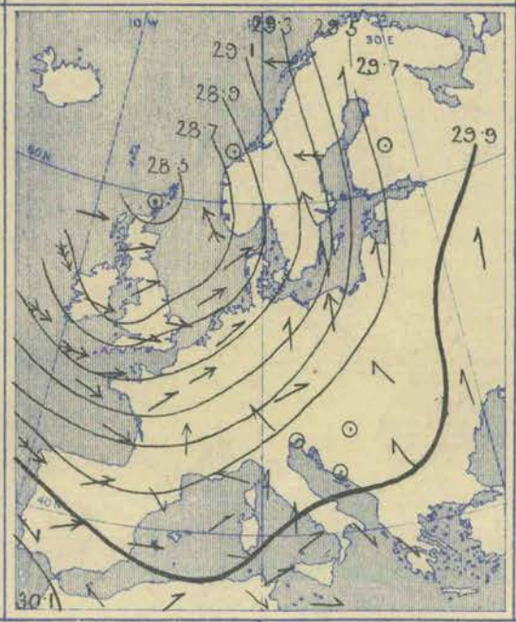
Barometer highest, (1) 30·26 ins. in the Azores, and 30·1 ins. to 29·9 ins. over the Spanish Peninsula, as well as over Asia Minor, the Black Sea, and south-eastern Europe generally; (2) 29·8 ins. to 29·5 ins. over the north of Russia. Lowest, below 28·4 ins. in the extreme north of Ireland, and the west and north of Scotland, including the Shetlands; below 29·3 ins. in a secondary disturbance over the Baltic provinces and Finland, and below 29·8 ins. in a shallow system over Corsica, the north of Italy, and Dalmatia. Beginning to rise a little on our north-west coasts later, but falling in the south-east and over the Continent generally.

Wednesday, 4th March.

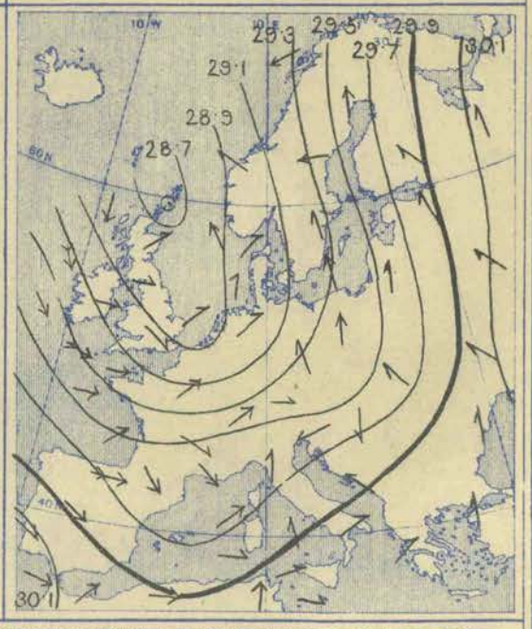
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern Europe, and the southern half of the Mediterranean, as well as in several parts of Scotland, very changeable and unsettled over western and northern Europe as a whole. Rain showers falling in many parts of Ireland and England, hail at Jersey, snow over northern Europe. Cold showers prevailing in nearly all parts of western and northern Europe during day. Thunder and lightning observed in the west and south of our Islands, and also at Hillington (Norfolk), and brilliant aurora in many places.

Temperature changing little and irregularly. Morning readings highest, 58° at Barcelona and Palma, and exceeding 50° at many of the Mediterranean stations, and on the Atlantic coasts of Spain and Portugal, 47° at Scilly, 46° along the west coast of Ireland. Lowest, 16° at Haparanda, 23° at Kuopio, 27° at Bodö, 29° at Moscow, 29° at Aberdeen, 31° at Leith, 36° at Malin Head, 33° to 38° over Austria-Hungary and the south of Russia. Changing irregularly during day in most places, but touching 70° at Nemours, 68° at Algiers and Palermo; frost occurring on the ground over Great Britain at night.

Wind light over south-eastern Europe; moderate over the Mediterranean, but over all the western and northern countries, excepting Scotland, force varying from a moderate breeze to a gale, and direction varying from North-West in Ireland, to West over England, the Channel, and Bay of Biscay; South-West over the Netherlands; South over Germany, and South-East and East over Scandinavia. Becoming less strong at most stations during the day, but a North-Westerly gale setting in at the Scotch stations at night.

Barometer highest, (1) 30·26 ins. in the Azores, and exceeding 30·0 ins. over the south-western parts of Spain and the northern parts of Africa; (2) exceeding 30·0 ins. over the south-eastern half of Russia, and exceeding 29·7 ins. at Kuopio. Lowest, below 28·5 ins. over the Shetlands and Caithness, and below 29·0 ins. over nearly the whole of the British Islands, the North Sea, and the southern half of Norway. Rising very quickly over the British Islands later, and less quickly over the Continent. Steep gradients for North-Westerly winds becoming prevalent over the United Kingdom.

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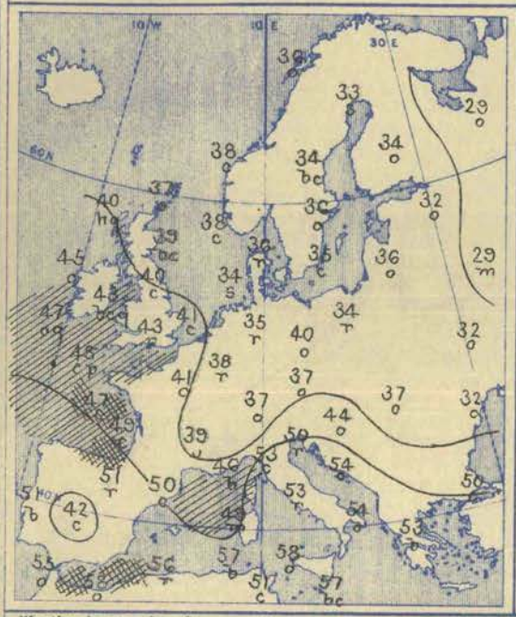
Thursday, 5th March.

Temperature and Weather.

8 a.m.

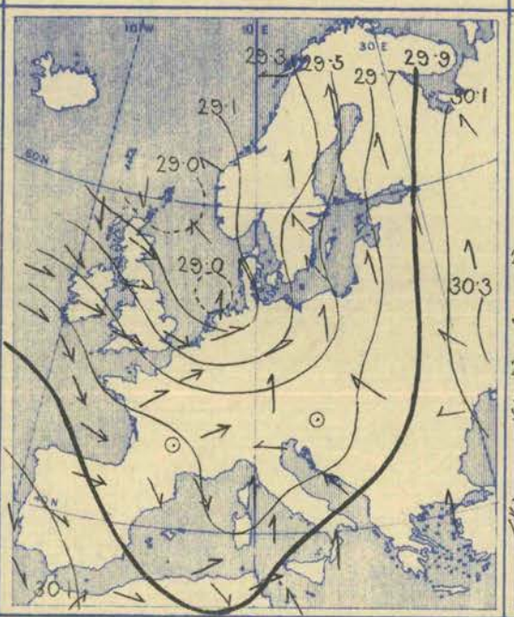


Weather in morning fine over the greater part of Spain, and at several stations in the British Islands and the north of France, but, as a whole, in a very changeable condition almost everywhere. Rain and hail showers falling on several parts of our own coasts and over France; rain and snow over countries lying to the eastward of the North Sea, and rain over south-eastern Europe and at Rome. Showers falling later over nearly the whole of the British Islands, north-western and western Europe; solar halos and parhelia seen in several places. General condition very unsettled.

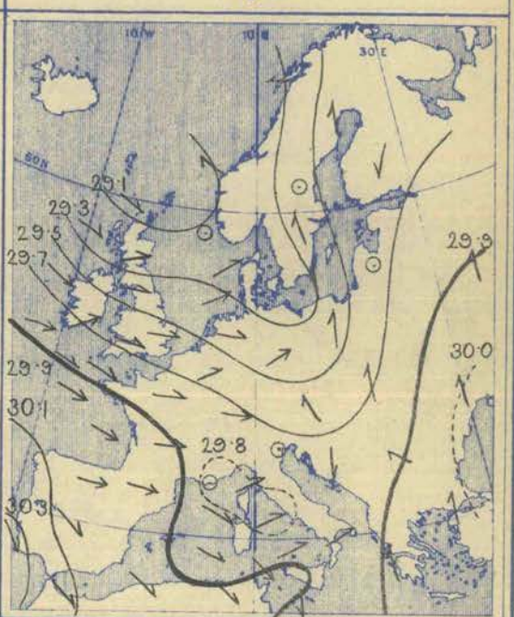
Temperature risen somewhat over Great Britain and northern Europe. Morning readings highest, 58° at Oran and Palermo, and above 50° at many of the Mediterranean and Adriatic stations, at Lisbon, and at Biarritz, 48° at Scilly, 47° at Valencia (Ireland), and exceeding 40° over all but the north-eastern parts of the United Kingdom. Lowest, 20° at Kharkov, 29° at Moscow and Archangel, 32° at Kiev and Nicolaieff, but above the freezing point at all other stations. Touching 73° Fahr. at Palermo later, and 60° to 66° over Algeria. Changing fitfully over western Europe, but inclined to increase over Ireland.

Barometer and Wind.

8 a.m.



6 p.m.



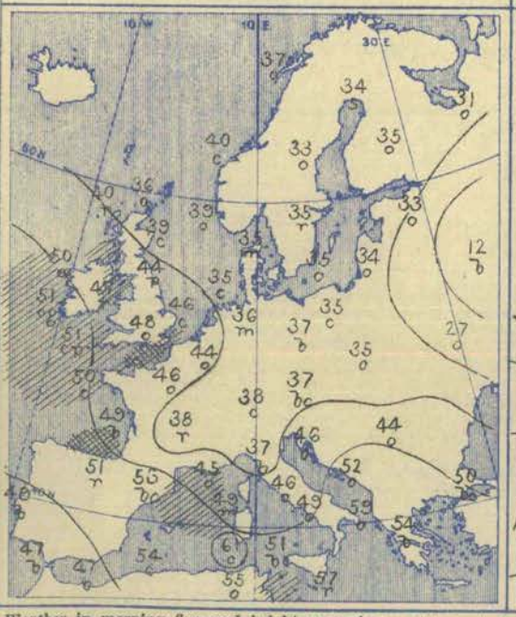
Wind North-Westerly over the whole of the British Islands, the Bay of Biscay, and Spain, and blowing strongly at all exposed stations; South-Westerly to Southerly strong to moderate over the Netherlands and north Germany; Southerly strong over the Baltic provinces and Finland; South-Easterly to Easterly over Scandinavia. Local cyclonic circulation prevalent over the Gulf of Genoa. Moderating somewhat in our Islands later, but general condition remaining squally and unsettled.

Barometer highest, (1) 30·28 ins. over the Azores, and exceeding 29·8 ins. over the whole of the Iberian Peninsula; (2) 30·29 ins. at Kharkov, and exceeding 29·8 ins. over Russia and south-eastern Europe generally. Lowest, (1) below 29·0 ins. in a depression lying over the Shetland Islands and neighbourhood, and in a secondary disturbance over the eastern side of the North Sea; (2) below 29·6 ins. in small disturbances over the Gulf of Genoa and the northern extremity of the Adriatic. Barometer rising over France, England, and the North Sea later, but beginning to fall again in the north-west of the British Islands.

Friday, 6th March.

Temperature and Weather.

8 a.m.

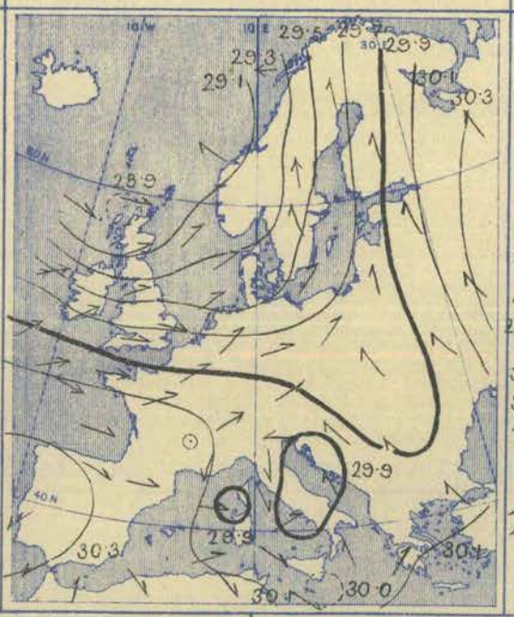


Weather in morning fine and bright over the greater part of the Iberian Peninsula, and the northern shores of the Mediterranean, as well as over central Russia; cloudy, changeable, and very unsettled elsewhere, with rain at many stations; snow or hail in some northern localities. Similar conditions continuing over the British Islands and their neighbourhood during the day, and spreading over north-western Europe; rainfall heavy, (0·95 in.) at Valencia (Ireland), and 0·7 in. at Münster. Aurora seen at Wick in the evening.

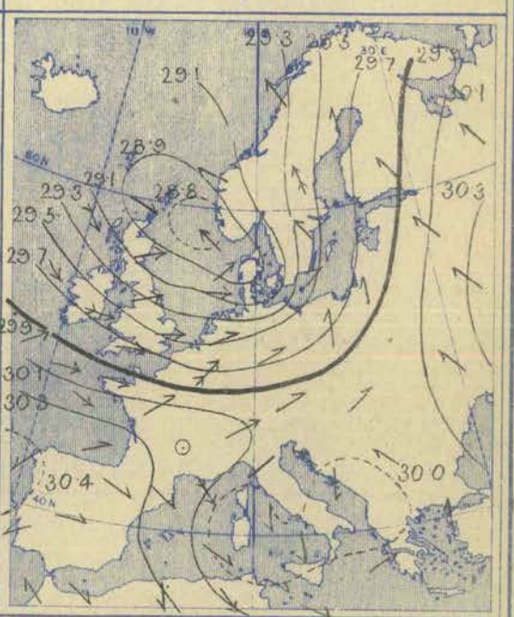
Temperature risen decidedly over the British Islands, fallen somewhat over southern, central, and eastern Europe. Morning readings highest, 59° at Brindisi, 57° at Malta, 54° at Algiers, 51° at Biarritz, Scilly, and Valencia. Lowest, 12° at Moscow, 13° at Kharkov, and below the freezing point over central Russia as a whole, 33° at St. Petersburg, 35° at Warsaw, Stockholm, Fanö, and Wick. Rising to between 50° and 55° over England and Ireland later, and touching 61° at Nice, and 64° at Perpignan and Algiers, 66° at Cagliari. Changing fitfully later.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light and anticyclonic over Russia and south-eastern Europe, as well as over the Iberian Peninsula; cyclonic elsewhere, and varying greatly both in direction and force; (1) South-Westerly and Westerly and strong over the British Islands; more Southerly and more moderate over Germany; Southerly over the Baltic and Finland; Easterly over Finmark and the north of Norway; (2) a well-defined but complex cyclonic circulation prevalent over the Adriatic, Italy, and neighbouring parts of the Mediterranean. Blowing a gale from West or North-West over all parts of the British Islands and North Sea later, and from South-East over the Gulf of Bothnia.

Barometer highest, 30·3 ins. and more to 30·0 ins. (1) over the Iberian Peninsula and the greater part of France; (2) over Russia. Lowest, (1) about 28·9 ins. in a depression over the extreme north of Scotland, and 29·0 ins. in the west of Norway; (2) 29·8 ins. to 29·9 ins. in a very complex low pressure system over the north-eastern half of the Mediterranean, Italy, the Adriatic, and Dalmatia. Scotch depression moving eastwards later, and developing secondary disturbances over the North Sea and Denmark; barometer rising briskly on our north-west coasts.

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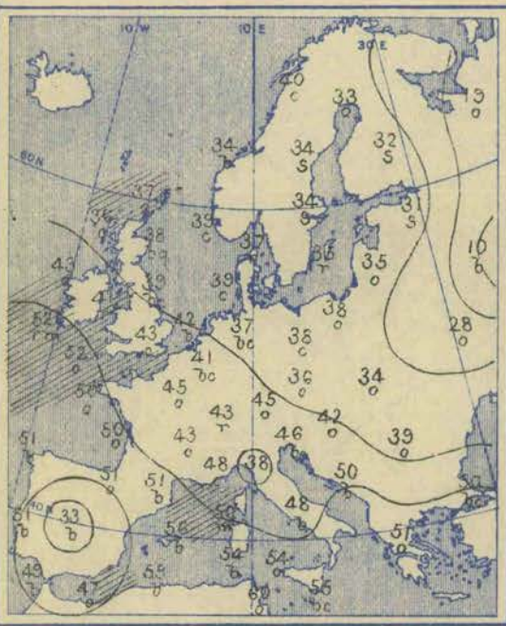
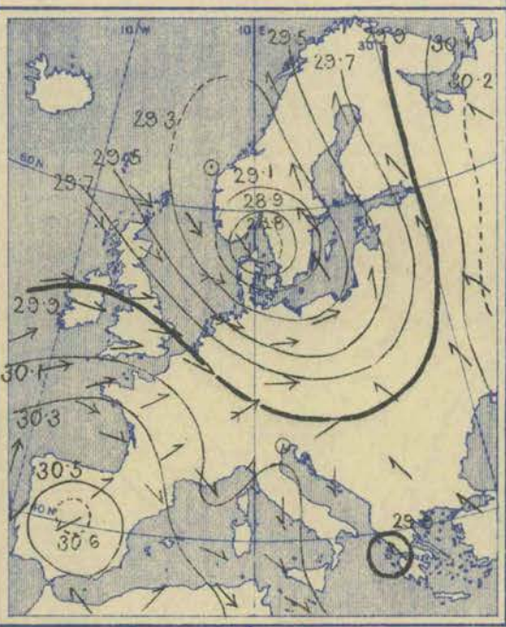
Saturday, 7th March.

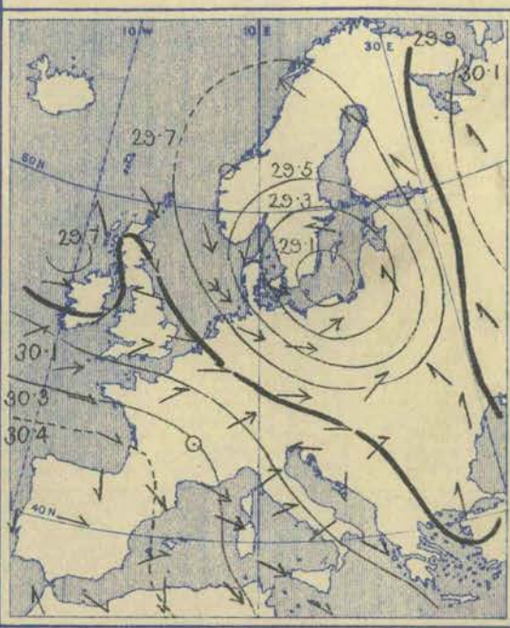
Temperature and Weather. — **8 a.m.**



Barometer and Wind. — **8 a.m.**



Barometer and Wind. — **6 p.m.**



Weather in morning very fine over the Iberian Peninsula, very changeable, dull, and unsettled elsewhere. Rain falling in many parts of our Islands, rain and snow over central Europe, and snow over many parts of Russia, Finland, and Sweden. The fall during the succeeding 24 hours exceeding 1·75 ins. at Munich, and 0·7 in. at many of the western stations in the British Islands, and amounting to 0·6 in. at Cape Gris Nez, 0·45 in. and more over the south-east of England. Squally in most places—very rough over Germany and the Baltic.

Temperature fallen somewhat over the British Islands, risen over central Europe and France. Morning readings highest, 56° at Barcelona and Palma, 55° at Malta, 54° at Cagliari, 50° at Sanguinaire, 52° in the south of Ireland and Scilly, 50° at Jersey. Lowest, 10° Fahr. at Kharkov and Moscow, 19° at Archangel, 31° at St. Petersburg, and also at Bodö, 36° at Stornoway, 38° at Leith. Rising later to between 56° and 50° over many parts of our Islands, to 54° at Paris, 67° at Perpignan, 68° at Lisbon. Succeeding night mild generally.

Wind anticyclonic over the Iberian Peninsula and over south-eastern Europe, cyclonic elsewhere. (1) Westerly (South-West to West-North-West) and strong over our Islands; North-Westerly, a gale, over the North Sea; Westerly, strong to a gale, over Germany; Southerly to South-Easterly, strong, over the Baltic provinces and Finland; calm at Christiansund. New cyclonic circulation setting in over our north-western coasts later, but not blowing hard; little change elsewhere.

Barometer highest, (1) 30·6 ins. at Madrid, and exceeding 30·0 ins. over the whole of Spain, France, and the southern parts of our Islands; (2) 30·2 ins. and more to 30·0 ins. over northern, central, and southern Russia, and apparently higher over eastern Russia. Lowest, 28·8 ins. and less in a well-marked depression over the Categat and south-west of Sweden; below 29·9 ins. over western Greece, and below 30·1 ins. over the Gulf of Genoa. Swedish depression beginning to fill up quickly later; new, but not deep, one approaching our own north-west coasts.

CLOUD ATLAS.

The Office has received Notice that the Cloud Atlas, in accordance with the resolutions of the International Conference of Munich, 1891, is about to be published. It contains 28 coloured figures of clouds.

The published price is 9 francs, but a considerable reduction can be made on this price if copies are obtained through the Meteorological Office.

Applications for copies should be made at once to this Office.

GENERAL NOTES.

The weather experienced over Europe, and especially over the north-western and northern countries, during this week, has been more unsettled than any which has prevailed during the present year. This result has been brought about by the appearance of large and deep depressions off the north of Scotland and the west of Norway, and of well-marked secondaries over the North Sea and central Europe, which, while they have caused South-Westerly to North-Westerly gales of considerable strength over the British Islands and their neighbourhood, have given rise to South-Easterly winds (gales in some localities) over northern Europe. The former were accompanied by rain, hail, wet snow, and thunderstorms, the latter by cold, dull weather, and snow at times.

Simultaneously with the above-named disturbances local depressions have appeared over the northern parts of the Mediterranean and Adriatic, so that southern Europe also has participated in the general disturbance, leaving the Iberian Peninsula and the extreme south-east of Europe as the only parts which have been unaffected.

The temperature changes over the British Islands and north-western Europe have been frequent, sudden, and considerable.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	21·0	+ 2·3	28	+ 3	EASTBOURNE	12·0	−13·0	16	− 18
OSWALDKIRK (Yorkshire)	24·4	+ 2·4	32	+ 3	SOUTHPORT	14·8	?	19	?
WORKSOP	19·2	− 0·9	25	− 2	MANCHESTER (Oldham Road)	10·7*	?	14*	?
THURCASTON (Leicestershire)	18·0	− 1·3	24	− 2	TENBY				
MARGATE	17·9	− 5·5	23	− 7	NEWQUAY	15·0	−12·0	19	− 17
WESTBOURNE (Sussex)	20·1*	− 7·1	26*	− 9	TORQUAY	18·9*	− 6·1	22*	− 8
BRIGHTON	14·5	−11·3	19	− 15	ARLEY COTTAGE (County Cavan)	9·1	−10·4	12	− 14
					GUERNSEY	20·6*	− 9·2	27*	− 12

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith. 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 11.] *Third Series.* WEEK ENDING SATURDAY, MARCH 14TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 62.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	22	45·0	32·3	38·7	0 (average)	8	− 1	33	− 2	127	+ 51	230	− 201
	1. SCOTLAND, EAST	57	20	46·1	31·8	38·7	0 (average)	11	− 2	37	0	127	+ 27	320	− 143
	2. ENGLAND, N.E.	59	28	47·6	35·6	41·4	2 above	16	+ 1	25	− 6	122	+ 23	267	− 137
	3. ENGLAND, EAST	60	26	50·8	36·4	43·4	3 above	33	+14	16	−18	149	+ 25	301	− 159
	4. MIDLAND COUNTIES	61	27	50·7	37·8	44·1	4 above	32	+12	12	−22	181	+ 50	278	− 178
	5. ENGLAND, SOUTH	60	32	51·6	41·4	46·4	5 above	33	+12	2	−25	186	+ 36	206	− 161
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	26	47·6	35·2	41·2	1 above	16	+ 3	26	− 1	171	+ 58	185	− 144
	7. ENGLAND, N.W.	56	29	48·2	38·2	43·1	2 above	24	+10	11	−15	186	+ 79	168	− 170
	8. ENGLAND, S.W.	58	31	51·9	44·3	48·0	6 above	42	+22	0	−22	253	+ 74	136	− 140
	9. IRELAND, NORTH	58	30	49·4	37·9	43·4	2 above	27	+10	11	−12	251	+100	123	− 163
	10. IRELAND, SOUTH	58	34	53·7	44·2	48·8	5 above	48	+24	0	−18	346	+120	74	− 145
	—CHANNEL ISLANDS	57	44	53·7	47·7	50·3	6 above	60	+35	0	− 9	363	+120	39	− 85

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 62.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	2 less	55	0	14·6	+ 1·4	23	+ 3	30	+ 5	89	− 30	13	− 5
	1. SCOTLAND, EAST	4	2	3 less	40	− 2	3·7	− 2·8	14	−10	17	−13	143	− 14	21	− 2
	2. ENGLAND, N.E.	3	6	2 more	31	− 9	2·9	− 1·7	16	− 8	20	−10	128	− 26	18	− 4
	3. ENGLAND, EAST	5	4	1 more	37	− 3	3·2	− 1·4	14	−12	18	−15	151	− 27	21	− 4
	4. MIDLAND COUNTIES	5	5	1 more	34	− 4	3·3	− 2·1	13	−11	16	−14	134	− 29	19	− 4
	5. ENGLAND, SOUTH	4	3	1 less	31	− 6	2·9	− 3·0	12	−15	15	−19	141	− 39	19	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	2 less	49	+ 2	9·2	− 2·7	19	− 4	24	− 5	94	− 51	14	− 7
	7. ENGLAND, N.W.	6	8	4 more	42	0	6·3	− 0·4	8	−10	10	−13	*86	− 44	16	− 6
	8. ENGLAND, S.W.	6	7	0 (average)	38	− 5	5·3	− 3·4	11	−18	14	−23	148	− 51	20	− 7
	9. IRELAND, NORTH	6	6	0 (average)	45	− 4	7·4	− 0·7	10	−12	13	−14	111	− 46	16	− 6
	10. IRELAND, SOUTH	5	5	1 less	40	− 5	6·6	− 2·3	8	−18	10	−25	127	− 59	18	− 8
	—CHANNEL ISLANDS	7	4	1 less	42	− 6	4·0	− 3·5	17	−15	21	−20	195	− 31	26	− 5

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very cloudy or dull in all but the most northern districts. Rain was of frequent occurrence, although the amounts were generally small. Towards the end of the week, however, considerable falls of rain, sleet, or snow were experienced at some of our north-eastern stations.

Temperature was subject to considerable changes, but except in Scotland N. and E. was in excess of the mean. In England S.W. and the Channel Islands the excess was as much as 6°, and in England S. and Ireland S. it was 5°. The highest of the maxima were recorded on the 8th or 9th, when they ranged from 61° in the Midland counties, and 6[illegible]° in England E. and S., to 53° in Scotland N. The lowest of the minima were registered either on the 13th or 14th, when the thermometer fell to 20° in Scotland E., and 22° in Scotland N., and to between 26° and 32° in most other districts; in Ireland S., however, the lowest reading was only 34°, and in the Channel Islands 44°.

Rainfall did not differ very materially from the mean, but was somewhat in excess in most parts of England, and either equal to or a little less than the normal over Ireland and Scotland.

Bright Sunshine exceeded the mean in Scotland N., but in all other places there was a deficiency, that in most districts being very decided.

Barometer and Wind.—At the commencement of the period a rather large depression was passing north-eastwards over the extreme north of Scotland, causing strong Westerly or South-Westerly winds in almost all parts of the Kingdom. As this system passed away an anticyclone extended over England from the southward, and the winds became very light in force, and rather variable in direction. By the 11th, however, a depression appeared over Scandinavia, and the barometer fell very generally over our Islands, the anticyclone receding at the same time in a Southerly direction to France. Towards the end of the week some small shallow disturbances appeared directly over the United Kingdom, producing winds from very varying directions, but of little strength.

* This value has been altered somewhat owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 61 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	44	30	41·9	34·0	37·8	− 0·3	0	29	7	1·05	+0·43	*	*	*	*
	Stornoway	52	22	44·7	32·4	38·9	− 1·4	8	31	5	0·62	−0·23	25·1	+ 3·0	32	+ 3
	Wick	52	24	44·1	32·9	38·3	− 0·6	6	32	5	0·52	+0·03	*	*	*	*
	Glencarron ⚷	49	25	44·4	31·2	37·6	− 0·5	7	38	5	1·23	−0·22	*	*	*	*
	Fort Augustus ⚷	53	25	47·6	31·7	39·4	+ 0·3	16	38	3	0·29	−0·49	19·3	+ 3·1	24	+ 4
	Fort William ⚷	53	27	47·0	33·3	40·0	0·0	14	33	3	1·07	−0·40	25·8	+ 5·0	33	+ 7
1. SCOTLAND, E.	Nairn	57	20	45·9	31·4	38·4	− 0·8	11	38	5	0·35	−0·07	*	*	*	*
	Aberdeen	54	29	45·7	34·3	39·8	+ 0·4	10	28	6	0·30	−0·20	9·8	−16·2	12	−21
	Braemar ⚷	49	24	42·5	29·3	35·7	0·0	1	43	2	0·12	−0·46	16·7†	− 5·5†	21†	−11†
	Ochtertyre ⚷	54	25	48·9	30·6	39·5	+ 0·7	19	43	4	0·26	−0·33	*	*	*	*
	Leith	55	30	48·6	33·4	40·8	+ 0·2	18	33	3	0·18	−0·12	*	*	*	*
	Marchmont ⚷	50	28	44·9	31·7	38·1	− 0·2	8	37	3	0·18	−0·34	13·8	− 9·0	17	−12
2. ENGLAND, N.E.	Alnwick Castle	53	29	47·3	35·4	41·2	+ 2·0	15	26	2	0·48	−0·02	*	*	*	*
	Durham	59	28	47·8	33·4	40·4	+ 0·8	16	33	3	0·68	+0·25	10·6	−13·8	13	−18
	Shields	57	32	47·6	34·9	41·1	+ 1·0	16	28	3	0·80	+0·43	*	*	*	*
	Scarborough ⚷	59	33	47·4	36·6	41·8	+ 1·4	15	21	1	0·50	+0·12	*	*	*	*
	York	59	30	49·3	35·1	42·0	+ 1·7	20	19	3	0·46	+0·10	19·9	− 2·9	25	− 4
	Spurn Head	54	34	46·3	38·0	42·0	+ 2·1	12	11	4	0·39	+0·13	*	*	*	*
3. ENGLAND, E.	Hillington ⚷	57	26	50·5	34·7	42·4	+ 2·3	33	20	6	0·36	0·00	17·6	− 7·1	22	− 9
	Yarmouth	57	31	48·0	37·0	42·3	+ 2·6	23	14	4	0·46	+0·08	*	*	*	*
	Geldeston	60	28	51·8	35·5	43·4	+ 2·8	37	18	5	0·48	+0·18	18·7	− 8·3	23	−11
	Cambridge	59	29	52·7	36·1	44·2	+ 3·4	40	17	4	0·45	+0·16	13·9	−12·2	17	−17
	Rothamsted	56	32	51·2	38·9	44·9	+ 4·8	33	9	5	0·24	−0·13	7·1	−18·7	9	−24
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	27	49·7	35·3	42·3	+ 1·8	30	19	3	0·39	+0·09	*	*	*	*
	Loughborough	61	29	51·3	36·3	43·6	+ 2·5	35	16	5	0·46	+0·12	*	*	*	*
	Stamford (Ketton Hall)	58	29	51·9	38·1	44·8	+ 4·3	36	11	4	0·32	+0·02	*	*	*	*
	Cheadle ⚷	56	31	47·5	36·3	41·7	+ 2·5	15	22	6	0·78	+0·30	*	*	*	*
	Solihull	58	33	50·3	38·0	44·0	+ 3·6	31	11	6	0·43	?	*	*	*	*
	Churchstoke ⚷	59	29	50·8	38·9	44·7	+ 4·7	32	9	5	0·59	+0·17	9·1	−15·1	11	−19
	Hereford ⚷	59	30	52·3	39·2	45·6	+ 4·3	37	8	5	0·65	+0·30	*	*	*	*
	Cirencester	56	32	50·9	38·9	44·7	+ 4·8	32	9	5	0·41	−0·02	15·8	− 9·2	20	−12
	Oxford	59	33	51·6	39·4	45·3	+ 4·3	34	7	4	0·34	−0·02	9·5	−15·5	12	−19
5. ENGLAND, S.	London	59	36	52·9	40·9	46·7	+ 4·9	38	3	4	0·36	+0·06	5·0†	−12·5†	6†	−16†
	North Foreland	57	37	50·4	40·6	45·4	+ 4·2	30	4	5	0·34	?	*	*	*	*
	Strathfield Turgiss ⚷	60	34	53·9	39·4	46·4	+ 5·2	42	7	5	0·21	−0·11	*	*	*	*
	Dungeness	57	36	49·9	40·0	44·8	+ 3·9	28	6	4	0·17	−0·19	*	*	*	*
	Hastings (St. Leonards)	57	35	51·8	42·5	47·0	+ 5·7	35	0	2	0·23	−0·17	17·4	−12·7	22	−15
	Southampton	59	37	53·4	43·9	48·5	+ 7·0	46	0	2	0·07	−0·37	10·6	−17·4	13	−23
	Hurst Castle	52	39	49·7	42·9	46·2	+ 4·5	29	0	4	0·17	−0·21	*	*	*	*
	Stowell ⚷	54	33	51·0	40·9	45·8	+ 4·1	31	3	5	0·53	+0·03	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	54	28	48·6	34·4	41·3	+ 0·3	18	30	4	0·91	−0·47	*	*	*	*
	Glasgow	52	31	46·2	35·6	40·7	+ 1·0	12	24	4	0·34	−0·18	17·4	− 0·9	22	− 1
	Ardrossan	52	31	46·0	36·6	41·2	+ 0·5	11	21	3	0·42	−0·06	*	*	*	*
	Glenlee ⚷	55	26	48·6	32·4	40·3	+ 1·5	18	37	4	0·88	+0·06	*	*	*	*
	Douglas (Isle of Man)	54	32	48·6	36·8	42·5	+ 1·4	25	15	5	0·42	−0·17	20·8	− 6·8	26	− 9
7. ENGLAND, N.W.	Stonyhurst	51	31	46·1	33·6	41·2	+ 1·4	11	21	6	1·37	+0·64	17·2	− 5·1	22	− 6
	Blackpool ⚷	51	29	47·1	36·6	41·7	+ 1·3	14	21	6	0·60	+0·15	10·9	−10·9	14	−14
	Manchester (Prestwich)	54	32	48·3	35·8	41·9	+ 1·9	18	25	7	1·05	+0·56	3·6	?	5	?
	Liverpool Obsy. (Bidston)	56	35	48·6	38·4	43·4	+ 1·7	25	10	6	0·53	+0·18	*	*	*	*
	Llandudno ⚷	54	35	50·0	40·9	45·3	+ 2·7	28	3	7	0·87	+0·46	7·6	−15·4	10	−19
	Holyhead	54	36	49·1	41·0	44·9	+ 2·5	25	3	6	0·57	+0·09	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	31	52·1	40·4	46·1	+ 4·3	35	4	7	0·86	+0·06	*	*	*	*
	Pembroke	50	38	49·0	42·4	46·1	+ 3·6	29	0	6	0·35	−0·15	10·3	−19·0	13	−23
	Bristol (Montpelier)												*	*	*	*
	Arlington (N. Devon)	56	36	50·6	42·1	46·2	+ 5·5	29	0	7	1·51	+0·71	*	*	*	*
	Cullompton ⚷	57	34	52·4	44·7	48·4	+ 5·6	45	0	6	0·69	+0·09	12·7	−14·2	16	−1
	Falmouth	56	43	54·0	47·0	50·4	+ 6·5	59	0	5	0·47	−0·31	9·3	−20·6	12	−25
	Plymouth	55	44	53·9	46·8	50·3	+ 6·9	58	0	7	0·24	−0·31	8·1	−21·0	10	−26
	Prawle Point	54	42	51·4	45·6	48·4	+ 6·0	45	0	5	0·49	+0·07	*	*	*	*
9. IRELAND, N.	Malin Head	51	36	46·0	38·4	42·1	− 0·2	16	10	5	0·56	?	*	*	*	*
	Londonderry	57	34	49·7	37·9	43·6	+ 1·8	28	11	7	0·60	+0·04	*	*	*	*
	Edenfel (Omagh)	54	30	49·3	35·1	42·0	+ 1·9	20	19	6	0·64	+0·12	*	*	*	*
	Belmullet	54	38	51·0	41·1	45·9	+ 2·2	31	3	5	0·77	−0·11	*	*	*	*
	Markree Castle	56	30	51·0	38·4	44·5	+ 3·4	33	10	7	0·67	+0·04	11·4	−10·2	14	−14
	Brookeborough												*	*	*	*
	Armagh	56	31	49·1	37·8	43·3	+ 2·6	27	12	7	0·49	−0·01	12·8	− 9·1	16	−11
	Donaghadee	58	33	48·7	37·3	42·8	+ 1·0	25	13	6	0·13	−0·29	*	*	*	*
	Edgeworthstown	54	30	50·0	36·9	43·3	+ 2·7	31	14	5	0·65	+0·08	*	*	*	*
10. IRELAND, S.	Dublin	58	35	52·6	42·0	47·1	+ 4·2	36	0	5	0·68	+0·24	3·7	−22·3	5	−28
	Parsonstown	56	34	54·6	39·6	45·9	+ 4·2	37	7	5	0·28	−0·22	2·9	−21·1	4	−26
	Kilkenny	57	34	52·7	42·4	47·9	+ 5·0	41	0	6	0·33	−0·14	*	*	*	*
	Roche's Point	57	40	54·7	47·3	50·9	+ 6·6	62	0	5	0·15	−0·63	*	*	*	*
	Valencia	56	37	53·3	47·3	50·2	+ 4·9	57	0	6	0·26	−0·04	16·7	−11.3	21	−14
	Killarney	58	34	55·5	46·8	51·0	+ 6·4	63	0	5	0·37	?	*	*	*	*
	Foynes	?	41	?	45·0	?	?	?	?	5	0·97	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	47	53·7	48·4	51·0	+ 5·3	63	0	7	0·17	−0·35	14·2	?	18	?
	Jersey	57	44	53·7	46·9	50·2	+ 5·9	57	0	7	0·71	+0·21	21·6	−11·8	27	−15

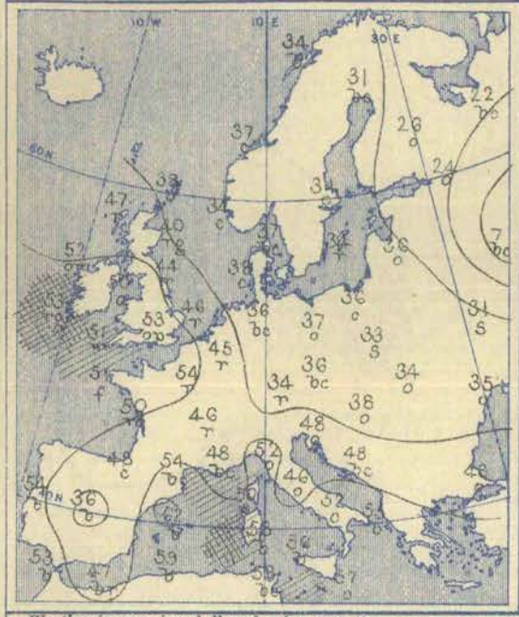
Stations marked ⚷ are in connection with the Royal Meteorological Society, and those marked ⚷ with the Scottish Meteorological Society.

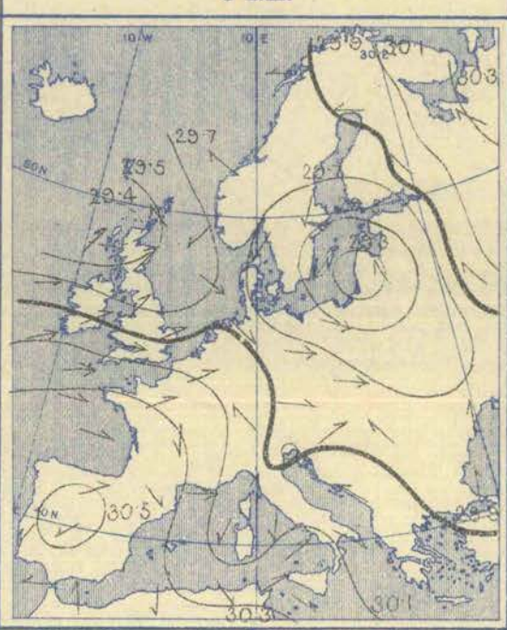
* An asterisk is inserted in all places for which the information is not usually received.

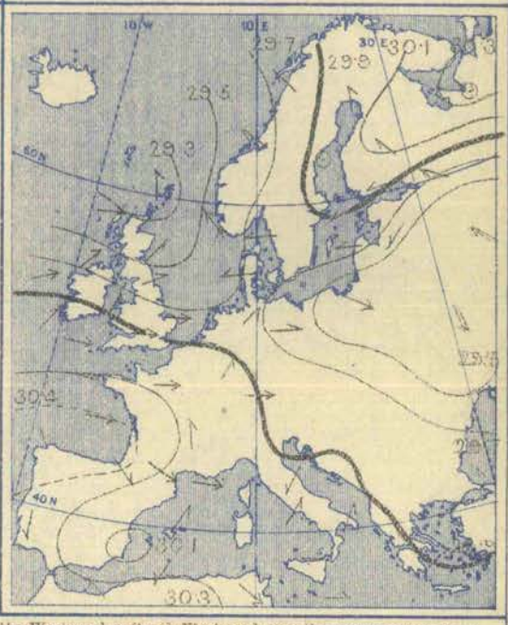
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 8th March.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning dull and rainy over the greater part of our Islands, France, and the Netherlands. Dull also over Germany, Italy, and the western parts of Russia, with rain or snow in a few places. Fine over Scandinavia, Denmark, and central Russia, and also over the Spanish Peninsula. Snow falling later in Denmark and north Germany, and heavy rain at Munich. Sky clearing at many of the Italian stations.

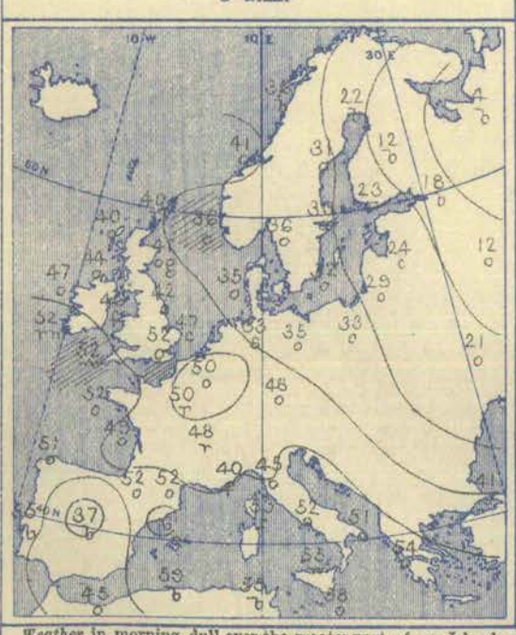
Temperature risen over the western and southern countries, but fallen elsewhere. Morning readings highest, 62° at Barcelona, 59° at Algiers, and 58° at Palma and Cagliari; above 50° at the Mediterranean and Spanish coast stations generally, as well as in many parts of Ireland and England. Lowest, 7° at Moscow, 9° at Kharkov, 22° at Archangel, and 24° at St. Petersburg; below the freezing point over nearly the whole of Russia, and very little above it in Sweden and Germany. Rising during day to 55° and upwards in many parts of the United Kingdom, and reaching 61° at Loughborough. Exceeding 60° in Italy and the south of France, and exceeding 70° over the Spanish Peninsula; the highest reading of all being 75° at Barcelona.

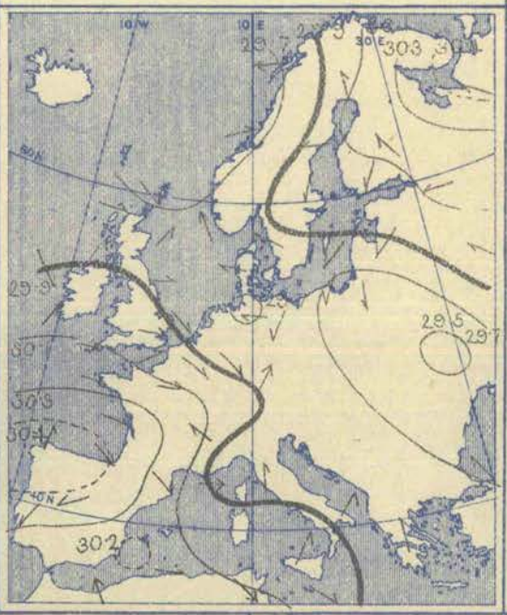
Wind moderate to strong from the Westward or South-Westward over the greater part of our Islands, France, and Germany, but Southerly in the north of Scotland. Light to moderate from the Eastward or South-Eastward over Russia and the north of Scandinavia; strong from the Northward or North-Westward over Denmark and the Baltic. Variable in Austria and Italy; North-Easterly over the greater part of Spain. Subsequently veering to the Westward in the north of Scotland; blowing very strongly from the same quarter in many parts of our Islands.

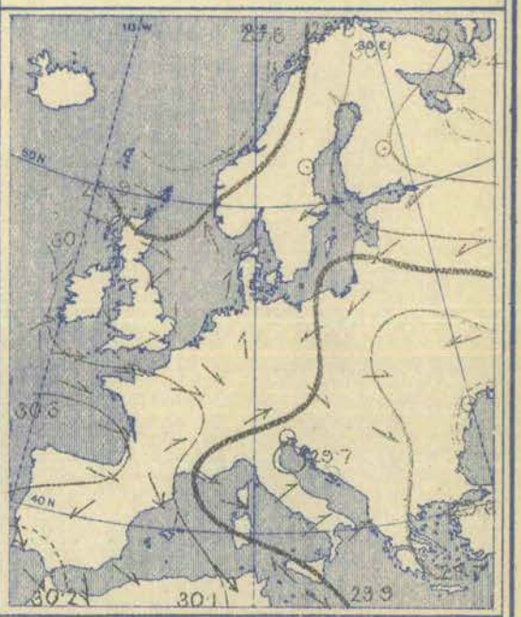
Barometer highest, 30·5 ins. and upwards over central Spain; 30·3 ins. and upwards in the north of Russia. Lowest, 29·3 ins. and less in a well-marked depression over the Baltic provinces, 29·4 ins. and less in another disturbance over the north of Scotland. Former disturbance travelling south-eastwards later, and partially filling up; Scotch depression moving slowly eastwards.

Monday, 9th March.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning dull over the greater part of our Islands and the Continent, with rain at several of our own southern and south-western stations, as well as over central France and the north-western parts of Germany; snow reported at Cuxhaven. Fine and bright over the northern parts of Russia and Scandinavia, and also over the central and southern parts of the Spanish Peninsula. Sky clearing later in the west and north of our Islands, but steady rain falling over England and the neighbouring parts of the Continent. Aurora seen at Wick.

Temperature fallen in most parts of western and northern Europe, but risen over the central and southern countries. Morning readings highest, 61° at Barcelona, 59° at Algiers, and 58° at Palma and Malta; above 50° over the Adriatic, Mediterranean, and the Bay of Biscay, and also at several of our own southern stations. Lowest, 4° at Archangel, 12° at Kuopio and Moscow, 18° at St. Petersburg, and 20° at Helsingfors; below the freezing point at the Swedish and Russian stations generally. Rising during day to 55° and upwards at many of our own southern stations, and to 59° in London. Exceeding 60° in Italy and the south of France, and exceeding 70° over the Spanish Peninsula.

Wind light to moderate from the Westward or North-Westward over our Islands and the Netherlands, and fresh from the same quarters in the west and south of France; Southerly or South-Westerly in the west of Norway. Light from the Eastward or South-Eastward over Russia and the north of Sweden, and from the North-Eastward or Northward over the Baltic and north Germany. Light from the Southward in Italy and Greece, but variable over the Spanish Peninsula. Subsequently veering to the North-Westward on our western and northern coasts generally; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·4 ins. and upwards in an anticyclone over northern Russia, and also in another system over the Bay of Biscay, Spanish Peninsula, and the greater part of France. Lowest, 29·5 ins. and less in a depression over the south-west of Russia; 29·6 ins. and less in another disturbance to the westward of Norway; 29·7 ins. and less in a small system over north Germany. Shallow secondary disturbances moving eastwards across our Islands later barometer rising steadily on our western and northern coasts.

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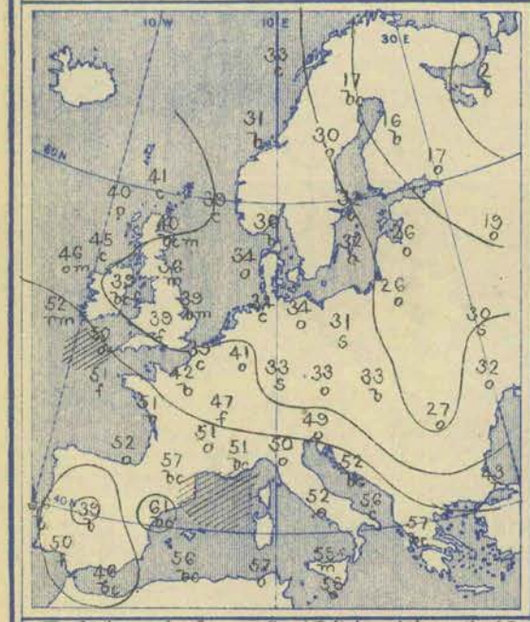
Tuesday, 10th March.

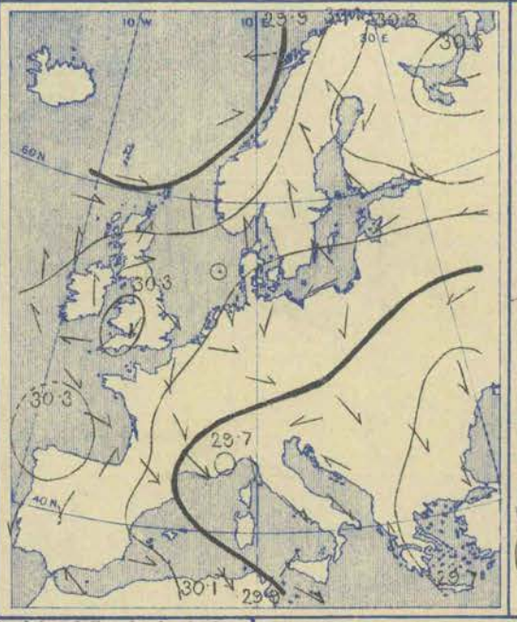
Temperature and Weather. 8 a.m.



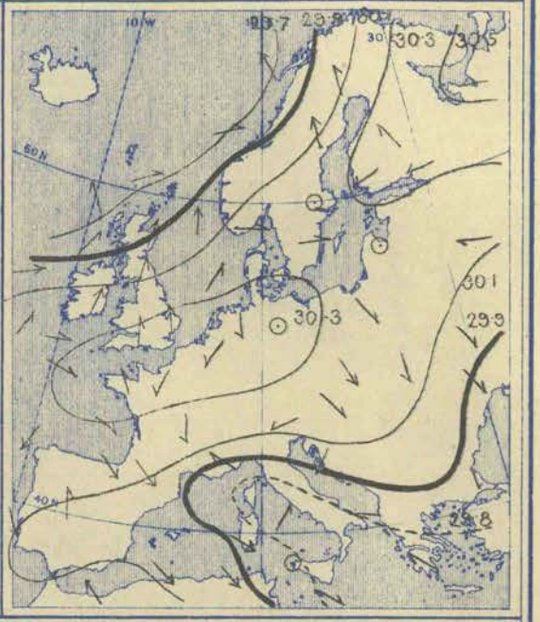
Weather in morning fine over Great Britain and the north of Ireland, but dull and rainy in the south of Ireland. Dull and unsettled over the greater part of the Continent, with rain at some of the central French stations, and also at Constantinople; fine in the extreme northern parts of Russia and Scandinavia, as well as in the Spanish Peninsula and the south of France. Rain setting in later over all but the south-eastern parts of the United Kingdom, and snow in the west of Norway. Solar halos seen at Oxford and Jersey.

Temperature fallen in our Islands, Germany, and the Netherlands, but risen in most other countries. Morning readings highest, 61° at Barcelona, 60° at Sfax, and 58° at Algiers and Malta; above 50° over the whole of the Mediterranean, as well as on the Portuguese and western French coasts, and in the extreme south-west of Ireland. Lowest, 2° at Archangel, 16° at Kuopio, 17° at St. Petersburg, and 18° at Kharkov; below the freezing point over Sweden and Russia generally, and also over central England. Rising during day to 50° and upwards at most of the English and Irish stations; exceeding 60° in Italy and the south of France, and exceeding 70° in many parts of Spain and Portugal.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

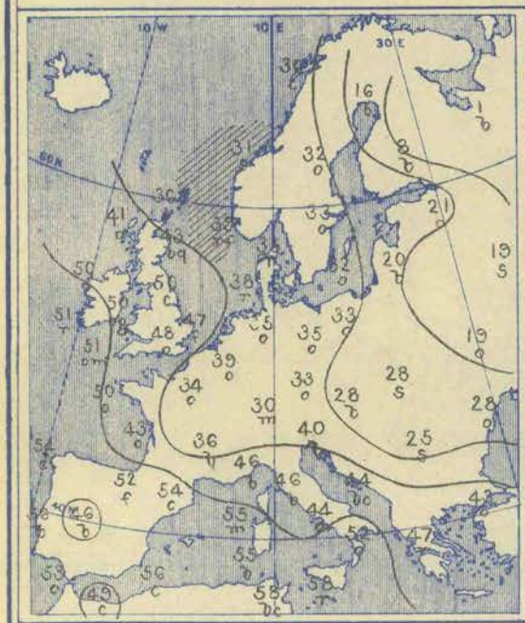


Wind light from the Southward in Ireland, and from the Westward in the north and east of Great Britain, but Northerly or North-Easterly in the south of England. Moderate from the Northward or North-Westward over France, Germany, and Austria; Easterly over Russia; Southerly or South-Easterly over the greater part of Scandinavia. Variable in Italy; Easterly or North-Easterly over the Spanish Peninsula. Subsequently backing to the South-Westward or Southward on our northern coasts and freshening considerably; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in an anticyclone over northern Russia; 30·3 ins. and upwards in two other systems lying respectively over central England, and over the Bay of Biscay and the northern and central parts of Spain. Lowest, 29·7 ins. and less in a large depression over south-eastern Europe; 29·9 ins. and less in another large system lying to the westward of Norway. Small but well-marked secondary disturbance advancing later to the Scotch coasts; barometer falling briskly over the northern parts of Great Britain.

Wednesday, 11th March.

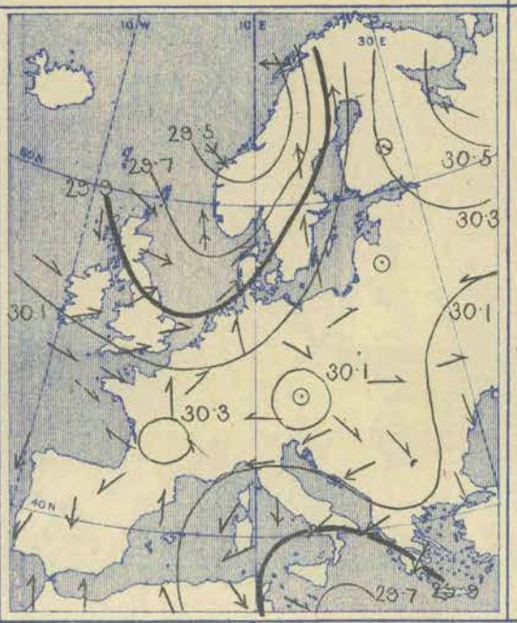
Temperature and Weather. 8 a.m.



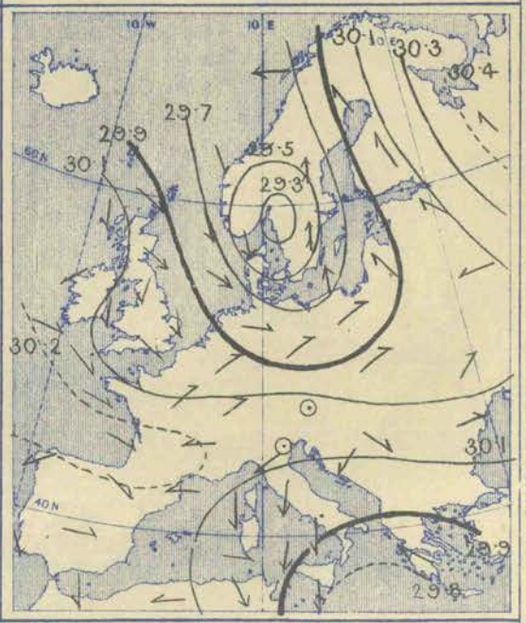
Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog or mist on many parts of our own southern coasts, and also in the west of France. Rain falling in Holland, Denmark, and the south of Norway, and snow at several of the Russian and Austrian stations. Fine and bright in the extreme north of Russia, as well as in Spain, northern Italy, and the south of France. A little rain falling later in many parts of the United Kingdom; heavy snow reported in Sweden.

Temperature risen quickly over the greater part of our Islands, fallen in France and Italy, changed irregularly elsewhere. Morning readings highest, 63° at Oporto, 58° at Barcelona, Malta, and Sfax, and 56° at Lisbon and Algiers; slightly above 50° in the west of France and the extreme south-west of our Islands. Lowest, 1° at Archangel, 8° at Kuopio, 12° at Helsingfors, and 16° at Uleaborg; below the freezing point over Austria, south Germany, and some parts of central France. Rising during day to 55° and upwards at several of the English stations, and touching 59° at Loughborough and Oxford. Exceeding 60° in the south of France, and exceeding 70° over the Spanish Peninsula.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Wind light to moderate from the Westward over our Islands generally, but strong from the Northward or North-Westward in the north of Scotland. Moderate to strong from the South-Westward over Denmark and the Netherlands, and from the Southward in Sweden and the south of Norway. Easterly over the greater part of Russia, but Northerly in the south of that country, and North-Westerly in Austria. Strong from the Eastward or North-Eastward over Italy and Greece; Northerly in Spain; variable in France and Germany. Subsequently veering to the North-Westward over our Islands and the eastern shores of the North Sea. Southerly gales setting in over Sweden.

Barometer highest, 30·5 ins. and upwards in the extreme north of Russia; 30·3 ins. and upwards in two other areas lying respectively over south Germany and central France. Lowest, 29·5 ins. and less in a large depression off the west of Norway; 29·7 ins. and less in another system to the southward of Malta. Well-marked secondary disturbance advancing eastwards later to the south of Sweden. Barometer rising over the north of our Islands and the west of Norway, but falling quickly over northern Europe generally.

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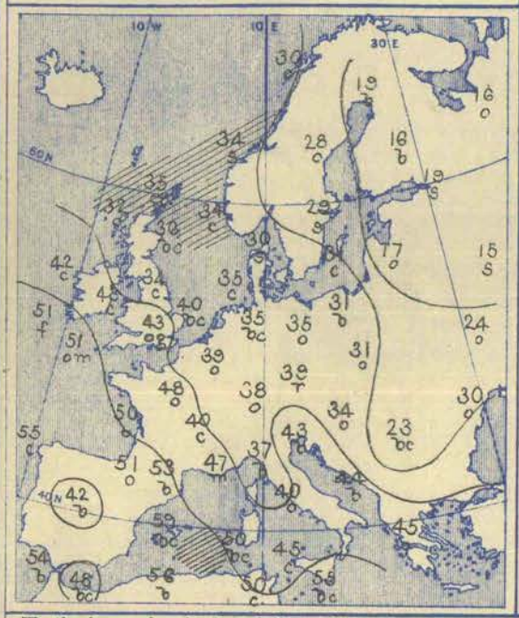
Thursday, 12th March.

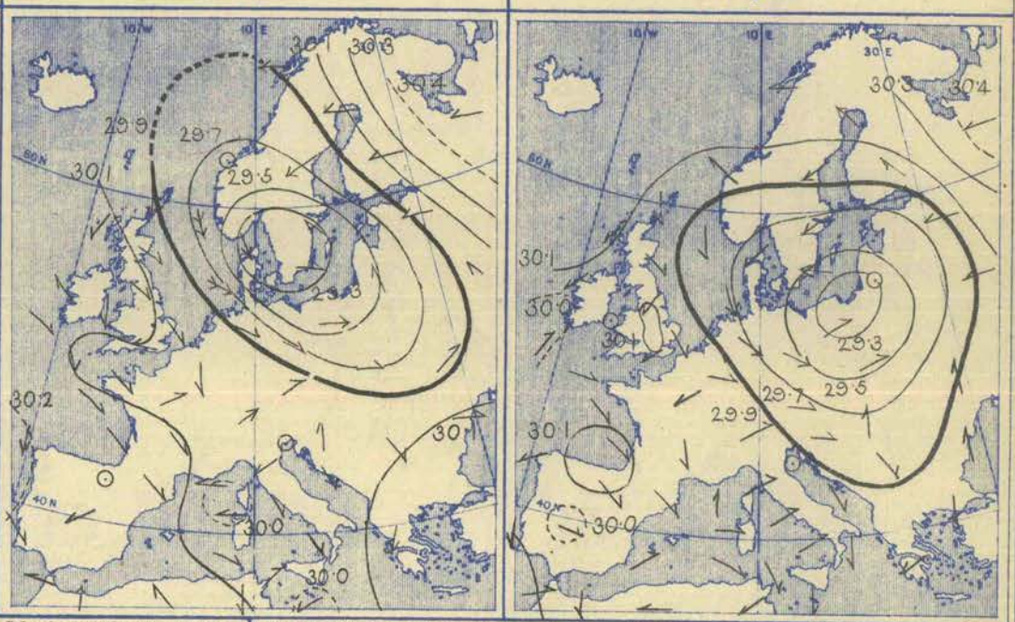
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the southern parts of our Islands, and also over all the more central and eastern parts of the Continent; fog or mist reported on our south and south-west coasts, rain in Austria and south Germany, and snow in many parts of Sweden, Denmark, and Russia. Fine over the northern parts of our Islands generally, and also over southern Europe. A little rain falling later at many of our own western and south-western stations; snow continuing over Denmark and the south of Sweden.

Temperature risen in France, Germany, and Austria, but fallen in most other countries. Morning readings highest, 59° at Palma, 56° at Barcelona, and 55° at Corunna, Lisbon, and Malta; slightly above 50° on our own extreme south-west coasts. Lowest, 15° at Moscow, 16° at Archangel and Kuopio, and 19° at Uleaborg, Helsingfors, St. Petersburg, and Kharkov; below the freezing point over Russia and Scandinavia generally. Daily maxima below 45° at many of our own northern and eastern stations; thermometer exceeding 55° in the west and south of France, and exceeding 60° in most parts of southern Europe. Frost occurring over the northern and central parts of Great Britain at night.

Barometer and Wind. 8 a.m. and 6 p.m.

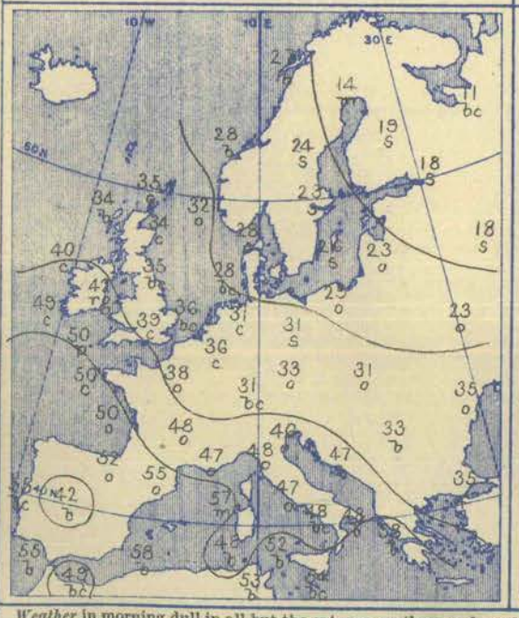


Wind light from the North-Westward in the north and east of our Islands, and strong to a gale from the same quarter on the eastern shores of the North Sea; Westerly or South-Westerly in Germany and Austria; strong from the Eastward or North-Eastward over the northern parts of Russia and Scandinavia; light from the North-Eastward over the central and southern parts of England; North-Westerly over our south-western coasts and the greater part of France; chiefly Northerly in Spain and Italy. Subsequently shifting to the Southward or South-Eastward on our western coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in the extreme north of Russia; 30·2 ins. and upwards in two other areas—one lying over Turkey and Asia Minor, and the other off the north-west of Spain. Lowest, 29·2 ins. and less in a deep depression having its centre over the south of Sweden. Depression subsequently moving south-eastwards across the Baltic; a new but shallow disturbance forming off the west of Ireland, and barometer falling slightly over our Islands generally.

Friday, 13th March.

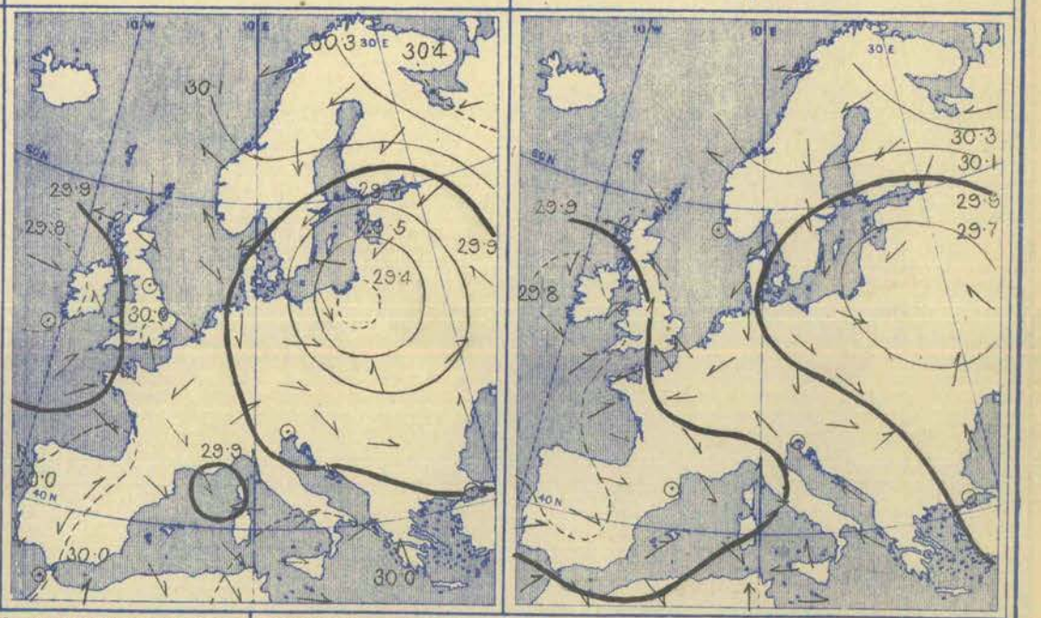
Temperature and Weather. 8 a.m.



Weather in morning dull in all but the extreme northern and south-eastern parts of the United Kingdom, with rain at several of our western stations. Fine in the west of Norway, and also over southern Europe, but cloudy in most other parts of the Continent, with snow over Sweden and the western and central parts of Russia, as well as at Berlin. Snow or sleet falling later over the northern parts of Great Britain, and slight rain at some of our southern stations, as well as in Italy and central France. Aurora seen at Aberdeen.

Temperature fallen in all but the southern and south-eastern countries. Morning readings highest, 59° at Palma, 58° at Algiers, and 55° at Barcelona, Lisbon, and San Fernando; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 11° at Archangel, 14° at Haparanda, 16° at Uleaborg, and 18° at St. Petersburg and Moscow; below the freezing point over northern Europe generally. Daily maxima below 45° in the northern, eastern, and central parts of our Islands; thermometer touching 55° at some of our south-west coast stations; exceeding that point in the west and south of France, and exceeding 60° in Spain and Italy. Sharp frost over the north of Scotland at night.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light from the Southward or South-Eastward over the greater part of England, and also in the north of Ireland; variable in the south of Ireland; light from the North-Westward in the north-east of Scotland. Moderate to strong from between North and East over Scandinavia and northern Russia; North-Westerly or Westerly over Germany and Austria; Southerly in the south of Russia. Westerly or North-Westerly over the west and south of France; Northerly or North-Easterly in Spain; variable in Italy. No important change occurring during day, but wind shifting to the Eastward in the north of Scotland.

Barometer highest, 30·4 ins. and upwards in the extreme north of Russia; 30·0 ins. and upwards in two large areas lying respectively over Spain and the south-west of France, and over southern Italy and the neighbouring parts of the Mediterranean. Lowest, 29·4 ins. and less in a well-marked depression over eastern Prussia; 29·8 ins. and less in a shallow system off the west of Ireland. Former disturbance subsequently moving eastwards over Russia; depression off our west coasts spreading eastwards.

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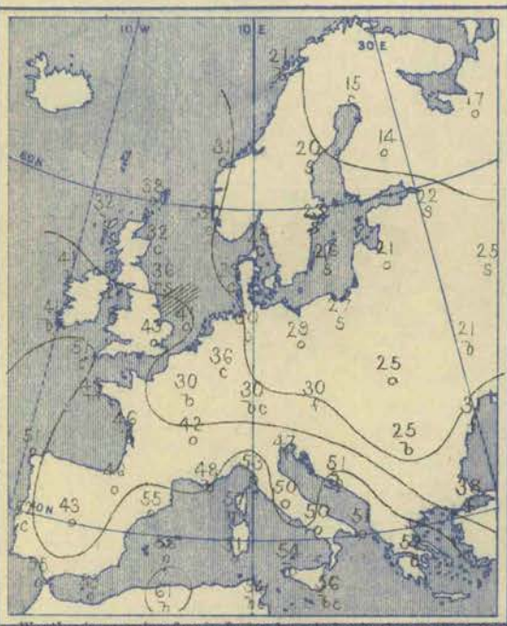
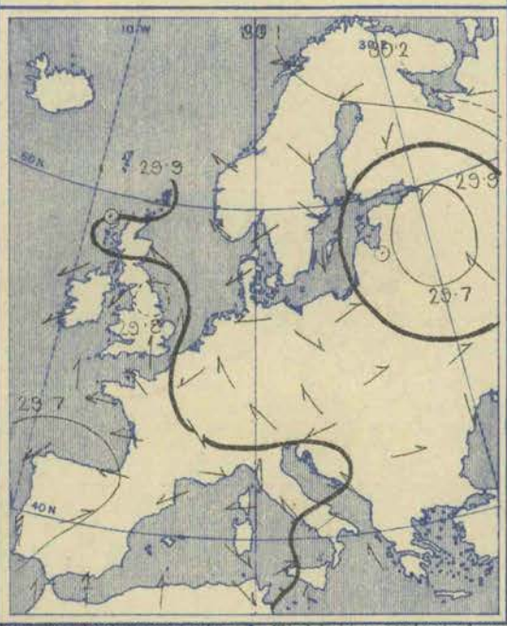
Saturday, 14th March.

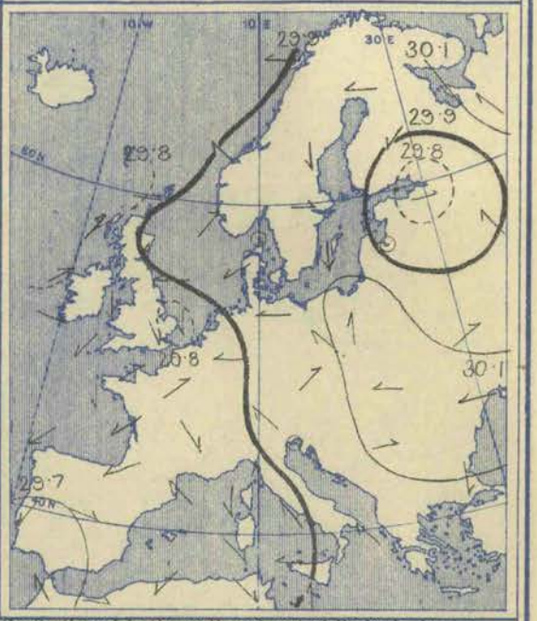
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in Ireland, and also in the north of Scotland, but cloudy in most other parts of our Islands, with showers at some of the English stations, and sleet at Shields. Dull over the greater part of the Continent, with snow in many parts of Sweden and Russia; fine in Norway, Denmark, western Germany, and the extreme south of France. Showers falling during day in many parts of the United Kingdom, and snow in Holland and the south of Norway.

Temperature risen over England, but fallen in nearly all other countries. Morning readings highest, 61° at Algiers, 56° at Palma and Malta, and 55° at Barcelona and San Fernando; above 50° at many of the Mediterranean and Spanish coast stations. Lowest, 14° at Knoplo, 15° at Haparanda, Hangö, and Helsingfors, and 16° at Uleaborg; below the freezing point over northern, eastern, and central Europe generally, and also in the north of Scotland. Daily maxima below 45° at most of our northern and eastern stations, but thermometer rising to between 50° and 55° in the south and south-west of our Islands. Exceeding 55° in the west of France; exceeding 60° over southern Europe generally, and reaching 70° at Oporto.

Wind light to moderate from the Southward in the south and east of England; from the Eastward over the northern parts of England and Ireland, and from the Northward in Wales and the south of Ireland. Variable in the north of Scotland; South-Easterly or Easterly in the west of Norway. Well-marked cyclonic circulation reported over Russia and Sweden; light variable breezes in Germany and Austria; South-Easterly in Italy; Southerly in Spain; Easterly in the west of France. Subsequently shifting to the Southward on our extreme north and north-west coasts, but to the Northward in many parts of England; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in the extreme north of Russia; 30·0 ins. and upwards in a long band extending southwards from the north of Scandinavia to Germany and Austria. Lowest, 29·7 ins. and less in a well-marked depression over western Russia, and also in a shallow system over the Spanish Peninsula; 29·8 ins. and less in another shallow disturbance over the north of England. New depression beginning to approach our extreme north-west coasts later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the distribution of pressure over Europe was very complex. Two anticyclones were in existence—one over Spain, and the other over northern Russia; well-marked depressions being situated respectively over the extreme north of our Islands and over the Baltic provinces. The weather was consequently very unsettled in all but the extreme northern and south-western parts of Europe, with strong Westerly winds and mild showers in our Islands, but with Easterly and Northerly winds, and snow in some of the northern and central countries.

On the 9th the two depressions moved away, the one to the northward, and the other to the south-eastward, while the high pressure systems became temporarily united by a "col" stretching across the more central parts of the Continent. Some slight improvement in the weather now set in, especially in the southern parts of our Islands, but over north-western and northern Europe generally there was a good deal of cloud, with slight rain in places.

During the after part of the 10th, however, a new depression advanced to the west of Norway, while a secondary disturbance skirted our own extreme northern coasts. On reaching the south of Scandinavia the latter system developed considerable intensity, and occasioned gales from various directions in that region, as well as over Denmark, north Germany, and the Baltic, with heavy falls of snow in many places. On the 12th the disturbance passed away to Russia, and the high-pressure system in the far north spread temporarily southward over Scandinavia, the anticyclone in the south gradually breaking up. A shallow but complex depression now advanced slowly over our Islands from the westward, and occasioned Southerly to South-Westerly winds and rain in our southern districts, but South-Easterly to Easterly winds and snow in the north. At the close of the week further low pressure systems were beginning to approach our north-west coasts from the Atlantic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	14·0	- 6·8	18	- 8	EASTBOURNE	14·9	-14·1	19	- 8
OSWALDKIRK (Yorkshire)	16·5	- 8·0	21	- 10	SOUTHPORT	3·9	?	5	?
WORKSOP	16·8	- 5·4	21	- 7	MANCHESTER (Oldham Road)	1·7*	?	2*	?
THURCASTON (Leicestershire)	14·7	- 6·4	18	- 9	TENBY	12·4*	-19·1	16*	- 23
MARGATE	16·1	- 9·9	20	- 12	NEWQUAY	11·5	-18·3	14	- 23
WESTBOURNE (Sussex)	10·5*	-19·7	13*	- 25	TORQUAY	11·2*	-17·8	14*	- 23
BRIGHTON	10·2	-18·0	13	- 23	ARLEY COTTAGE (County Cavan)	6·2	-15·1	8	- 19
					GUERNSEY	13·8*	-19·0	17*	- 24

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt., Lith. 65, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 12.] *Third Series.* WEEK ENDING SATURDAY, MARCH 21ST, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 68.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From December 29th, 1895. Above 42°	From December 29th, 1895. Difference from Mean.	From December 29th, 1895. Below 42°	From December 29th, 1895. Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	2	46·3	35·6	41·1	2 above	13	+ 3	25	- 9	140	+ 54	255	- 210
	1. SCOTLAND, EAST	57	27	49·1	34·4	41·5	2 above	20	+ 5	30	- 5	147	+ 32	350	- 148
	2. ENGLAND, N.E.	56	31	50·1	36·5	43·1	2 above	31	+14	15	-15	153	+ 37	282	- 153
	3. ENGLAND, EAST	57	28	51·6	36·4	43·8	2 above	36	+15	16	-16	185	+ 40	317	- 175
	4. MIDLAND COUNTIES	59	27	52·1	36·0	43·8	2 above	38	+14	17	-16	219	+ 64	295	- 194
	5. ENGLAND, SOUTH	57	2	52·2	39·4	45·6	3 above	36	+13	7	-19	222	+ 49	213	- 180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	27	48·1	37·6	42·7	2 above	23	+ 8	12	-15	194	+ 66	197	- 159
	7. ENGLAND, N.W.	57	29	50·5	38·1	44·1	2 above	31	+15	11	-15	217	+ 94	179	- 185
	8. ENGLAND, S.W.	58	26	51·8	40·7	46·1	3 above	34	+12	4	-17	287	+ 86	140	- 157
	9. IRELAND, NORTH	55	28	49·7	36·4	42·8	1 above	29	+ 9	16	- 7	280	+109	139	- 170
	10. IRELAND, SOUTH	57	30	51·7	38·9	45·1	1 above	35	+ 9	9	- 9	381	+129	83	- 154
	—CHANNEL ISLANDS	56	40	53·4	44·9	49·0	3 above	49	+23	0	- 8	412	+143	39	- 33

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 68.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	17	9 more	61	0	16·3	+ 2·2	24	+ 2	30	+ 4	115	- 27	15	- 4
	1. SCOTLAND, EAST	6	10	5 more	46	0	4·7	- 2·3	34	+ 9	41	+10	177	- 5	23	- 1
	2. ENGLAND, N.E.	4	5	1 more	35	- 9	3·4	- 1·7	23	- 3	28	- 4	151	- 29	19	- 4
	3. ENGLAND, EAST	6	12	8 more	43	- 1	4·4	- 0·5	17	-11	21	-13	168	- 38	21	- 5
	4. MIDLAND COUNTIES	6	7	3 more	40	- 1	4·0	- 1·8	20	- 6	25	- 6	154	- 35	19	- 5
	5. ENGLAND, SOUTH	6	11	7 more	37	- 4	4·0	- 2·3	16	-14	20	-16	157	- 53	19	- 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	21	13 more	55	+ 4	11·3	- 1·4	30	+ 4	36	+ 5	124	- 47	16	- 6
	7. ENGLAND, N.W.	5	7	2 more	47	+ 1	7·0	- 0·3	21	- 4	25	- 4	107	- 48	17	- 6
	8. ENGLAND, S.W.	6	11	5 more	44	- 2	6·4	- 2·9	23	- 9	27	-12	171	- 60	21	- 8
	9. IRELAND, NORTH	6	7	1 more	51	- 2	8·1	- 0·6	36	+15	43	+15	147	- 31	19	- 4
	10. IRELAND, SOUTH	6	13	7 more	46	- 2	7·9	- 1·7	32	+ 3	39	+ 4	159	- 56	20	- 7
	—CHANNEL ISLANDS	5	6	1 more	47	- 5	4·6	- 3·4	18	-23	22	-29	213	- 55	25	- 7

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very changeable. Rain fell frequently, and the amounts were sometimes rather large. Many intervals of bright sunshine were experienced, however, especially in the north and west. Thunder and lightning occurred at some of the north-western stations on Friday, and at Marchmont on Saturday.

Temperature was above the mean in all districts, the excess ranging from 1° in Ireland, to 2° in most other districts, and to 3° in England S. and S.W., and the Channel Islands. The highest of the maxima were recorded towards the end of the week, and ranged from 59° in the Midland counties, to 52° in Scotland W. The lowest of the minima were registered, as a rule, on the 19th, when they ranged from 26° in England S.W., to 31° in England N.E., and to 40° in the Channel Islands.

Rainfall exceeded the mean in all parts of the Kingdom, the excess being large in nearly all districts. In the south and east of England the fall during the week was about three times as large as the normal value.

Bright Sunshine exceeded the mean in Ireland and Scotland, but showed a deficit over England. The percentage of the possible duration ranged from 43 in Ireland N., and 41 in Scotland E., to 22 in the Channel Islands, 21 in England E., and 20 in England S.

Barometer and Wind.—Several depressions appeared over our extreme western and northern districts, and generally travelled away in a north-easterly direction without causing very strong gales. The system which prevailed on Tuesday, however, was deep, occasioning gales of great violence over the north and north-west of Ireland; and strong winds or gales in all other parts of our Islands. In addition to these large systems, many small secondary depressions appeared over the more southern and eastern parts of our Islands, and were the causes of the major portion of the rain experienced in those districts.

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II.—DATA from which the SUMMARY on page 67 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	33	46·0	37·0	41·4	+ 2·9	11	20	7	0·92	+0·32	*	*	*	*
	Stornoway	50	27	46·9	34·7	40·6	+ 0·9	14	28	7	1·76	+0·94	32·0	+ 8·0	39	+10
	Wick	53	29	47·0	35·6	41·1	+ 1·5	14	25	4	0·50	+0·06	*	*	*	*
	Glencarron §	52	32	45·8	33·4	39·4	+ 0·8	11	31	6	2·42	+0·96	*	*	*	*
	Fort Augustus §	54	34	48·1	35·6	41·7	+ 2·0	17	26	7	2·04	+1·38	21·3	+ 3·3	26	+ 5
	Fort William §	52	36	47·2	37·4	42·2	+ 1·6	21	13	7	2·79	+1·51	19·5	- 2·9	24	- 3
1. SCOTLAND, E.	Nairn	55	27	50·9	31·9	41·1	+ 1·2	25	39	6	0·37	+0·01	*	*	*	*
	Aberdeen	53	22	49·4	35·6	42·3	+ 2·2	29	18	5	0·73	+0·23	34·2	+ 6·0	41	+ 7
	Braemar §	4	31	43·1	33·0	37·9	+ 1·3	3	31	6	1·22	+0·71	34·7†	+ 8·0†	42†	+10†
	Ochtertyre §	5	29	50·3	34·9	42·4	+ 2·6	33	20	7	2·05	+1·43	*	*	*	*
	Leith §	5	34	51·7	38·0	43·6	+ 2·2	36	17	5	0·35	+0·02	*	*	*	*
	Marchmont §	55	30	49·1	34·7	41·7	+ 2·5	20	29	5	0·95	+0·39	32·2	+ 8·2	39	+10
2. ENGLAND, N.E.	Alnwick Castle	52	32	46·9	36·0	41·3	+ 1·5	14	23	5	0·83	+0·30	*	*	*	*
	Durham	56	31	51·2	34·4	42·6	+ 1·8	36	21	4	0·37	-0·10	25·5	- 0·8	31	- 2
	Shields	54	33	51·0	35·7	43·1	+ 2·2	24	18	2	0·26	-0·14	*	*	*	*
	Scarborough ℜ	54	33	50·5	37·9	44·0	+ 2·7	31	11	4	0·63	+0·22	*	*	*	*
	York	56	32	52·3	36·0	43·9	+ 2·6	39	17	5	0·44	+0·06	18·8	- 6·2	23	- 7
	Spurn Head	54	36	48·9	39·1	43·9	+ 3·0	25	8	5	0·28	-0·01	*	*	*	*
3. ENGLAND, E.	Hillington ℜ	55	30	52·2	37·2	44·5	+ 2·8	38	13	6	1·14	+0·76	20·1	- 6·3	24	- 8
	Yarmouth	54	33	49·3	37·0	43·0	+ 2·6	28	14	5	0·84	+0·43	*	*	*	*
	Geldeston	57	30	52·7	37·0	44·6	+ 2·9	39	14	6	0·99	+0·64	16·4	-13·5	20	-16
	Cambridge	57	30	53·0	35·0	43·7	+ 1·8	41	20	6	1·21	+0·91	19·5	- 9·5	23	-12
	Rothamsted	54	28	50·9	35·7	43·1	+ 1·9	34	18	6	1·79	+1·40	13·7	-14·3	16	-18
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	28	52·7	35·7	44·0	+ 2·4	40	18	4	0·70	+0·32	*	*	*	*
	Loughborough	58	28	53·0	35·6	44·0	+ 2·2	41	18	6	0·63	+0·26	*	*	*	*
	Stamford (Ketton Hall)	58	29	52·6	36·9	44·5	+ 2·9	39	14	6	0·67	+0·32	*	*	*	*
	Cheadle ℜ	54	30	50·9	35·1	42·8	+ 2·5	35	19	5	0·78	+0·26	*	*	*	*
	Solihull	55	28	51·3	35·2	42·9	+ 2·1	36	19	6	0·61	?	*	*	*	*
	Churchstoke ℜ	56	27	52·6	35·9	44·0	+ 3·0	40	17	6	0·59	+0·16	31·0	+ 4·2	37	+ 5
	Hereford ℜ	59	27	54·2	36·9	45·3	+ 2·8	45	14	4	0·48	+0·10	*	*	*	*
	Cirencester	54	27	50·6	35·1	42·6	+ 1·8	33	19	7	0·66	+0·21	15·6	-11·4	19	-14
	Oxford	57	32	51·3	37·4	44·1	+ 1·8	34	13	6	1·12	+0·76	14·8	-12·4	18	-15
5. ENGLAND, S.	London	56	31	52·9	37·6	45·0	+ 2·2	39	12	7	1·24	+0·92	9·1	-11·3	11	-14
	North Foreland	56	35	52·1	40·3	46·0	+ 4·1	35	5	4	0·42	?	*	*	*	*
	Strathfield Turgiss ℜ	56	28	53·0	36·6	44·6	+ 2·2	41	15	5	1·48	+1·15	*	*	*	*
	Dungeness	54	34	51·6	39·0	45·1	+ 3·1	34	8	4	0·32	-0·13	*	*	*	*
	Hastings (St. Leonards)	55	38	51·5	42·3	46·8	+ 4·4	34	0	5	0·78	+0·38	17·2	-15·6	21	-18
	Southampton	57	32	53·9	41·1	47·3	+ 4·0	41	3	6	2·02	+1·56	15·4	-15·4	19	-18
	Hurst Castle	54	34	51·3	40·6	45·8	+ 2·8	32	4	6	1·43	+1·01	*	*	*	*
	Stowell ℜ	55	29	51·0	38·0	44·3	+ 2·4	33	11	7	1·29	+0·77	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	52	36	47·8	38·3	42·9	+ 1·6	22	10	6	3·38	+1·98	*	*	*	*
	Glasgow	51	35	47·6	37·5	42·4	+ 1·9	22	13	7	1·17	+0·64	25·1	+ 4·6	30	+ 6
	Ardrossan §	50	36	47·1	39·9	43·4	+ 2·6	19	6	6	1·30	+0·77	*	*	*	*
	Glenlee §	51	27	48·4	34·8	41·4	+ 1·8	18	28	7	3·11	+2·24	*	*	*	*
	Douglas (Isle of Man)	51	31	49·4	37·7	43·4	+ 1·7	23	12	5	1·36	+0·71	34·4	+ 3·8	41	+ 4
7. ENGLAND, N.W.	Stonyhurst	53	32	48·6	38·8	43·5	+ 1·7	25	15	6	0·71	-0·05	15·9	- 8·6	19	-10
	Blackpool ℜ	57	32	50·9	37·5	44·0	+ 2·6	33	13	6	0·62	+0·11	24·7	+ 1·2	30	+ 2
	Manchester (Prestwich)	55	29	50·6	36·4	43·3	+ 2·0	33	16	5	0·75	+0·22	14·9	?	18	?
	Liverpool Obsy. (Bidston)	56	34	51·3	38·1	44·5	+ 2·1	34	11	4	0·55	+0·15	*	*	*	*
	Llandudno ℜ	56	33	51·3	39·4	45·2	+ 1·8	33	7	3	0·70	+0·22	‡	‡	‡	‡
	Holyhead	53	37	50·1	40·6	45·2	+ 1·8	28	4	5	0·81	+0·31	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	28	52·9	36·0	44·2	+ 1·8	41	17	5	1·17	+0·37	*	*	*	*
	Pembroke	50	38	49·3	43·3	46·2	+ 2·9	29	0	5	0·41	-0·11	21·0	- 7·9	29	- 9
	Bristol (Montpelier)												*	*	*	*
	Arlington (N. Devon)	53	28	50·7	38·0	44·2	+ 2·4	32	11	6	1·13	+0·35	*	*	*	*
	Cullompton ℜ	56	29	53·4	39·0	46·0	+ 2·2	41	8	5	1·15	+0·65	16·6	-12·9	20	-15
	Falmouth	55	37	53·0	43·1	47·9	+ 3·3	41	0	6	0·85	+0·15	29·0	- 3·5	35	- 4
	Plymouth	55	34	52·0	42·8	47·3	+ 2·8	37	0	5	1·83	+1·26	22·0	- 9·8	27	-11
	Prawle Point	55	35	51·0	43·0	46·9	+ 3·7	34	0	7	1·29	+0·86	*	*	*	*
9. IRELAND, N.	Malin Head	52	36	47·7	38·1	42·8	+ 0·1	22	11	5	0·73	?	*	*	*	*
	Londonderry		33	50·1	36·2	42·6	+ 0·1	31	16	5	0·60	-0·03	*	*	*	*
	Edenfel (Omagh)	53	28	48·4	32·1	40·5	- 0·2	18	34	5	0·43	-0·15	*	*	*	*
	Belmullet	5	38	48·9	40·0	44·3	+ 0·4	25	6	7	1·39	+0·53	*	*	*	*
	Markree Castle	54	29	50·5	35·7	42·9	+ 0·6	33	18	7	0·79	+0·17	39·2	+15·1	47	+18
	Brookeborough												*	*	*	*
	Armagh	53	32	50·5	36·3	43·2	+ 1·6	32	16	6	0·47	+0·01	37·8	+11·0	46	+18
	Donaghadee	53	31	51·0	35·9	43·2	+ 0·5	34	17	6	0·68	+0·20	*	*	*	*
	Edgeworthstown	52	30	?50·4	35·9	?42·9	?+ 2·1	?32	?17	6	0·74	+0·14	*	*	*	*
10. IRELAND, S.	Dublin	57	35	52·7	39·6	46·0	+ 2·3	38	7	5	1·01	+0·53	33·6	+ 4·6	40	+ 5
	Parsonstown	54	32	51·1	38·3	43·5	+ 0·9	34	16	6	1·15	+0·63	36·3	+10·1	44	+12
	Kilkenny	52	30	51·1	37·7	44·2	+ 0·9	33	12	6	0·93	+0·45	*	*	*	*
	Roche's Point	56	36	52·9	41·4	47·0	+ 2·2	38	2	3	0·70	-0·05	*	*	*	*
	Valencia	53	33	50·9	40·1	45·3	- 0·6	31	5	7	2·18	+1·23	26·9	- 4·1	32	- 5
	Killarney	55	30	51·6	38·0	44·6	- 0·2	35	11	7	2·29	?	*	*	*	*
	Foynes	?	35	?	39·5	?	?	?	?	5	1·17	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	48	53·6	46·1	49·7	+ 3·7	54	0	5	0·54	+0·02	30·2	?	36	?
	Jersey	58	40	53·1	43·6	48·2	+ 3·0	43	0	5	0·67	+0·15	12·7	-24·1	15	-29

Stations marked ℜ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

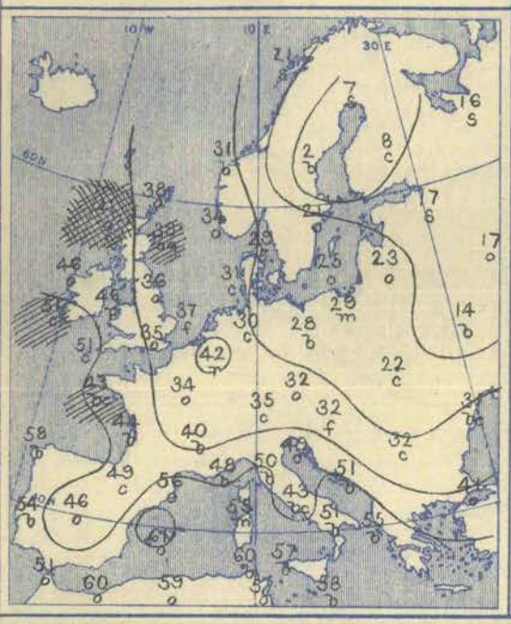
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

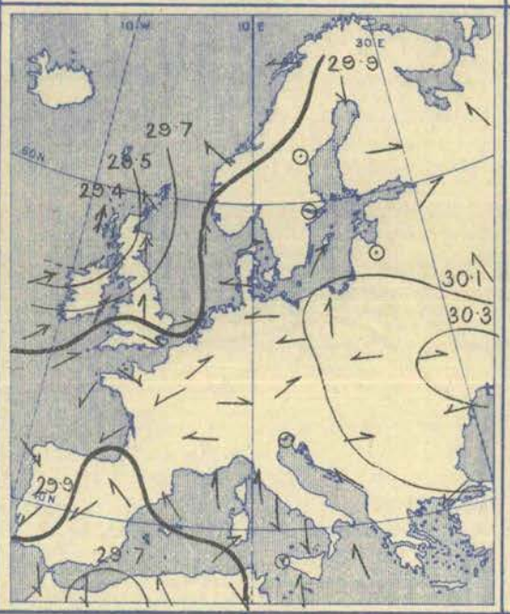
‡ The Bright Sunshine observations at Llandudno have now ceased; observations from Colwyn Bay, will, however, be found in the additional Sunshine Table on the last page.

Sunday, 15th March.

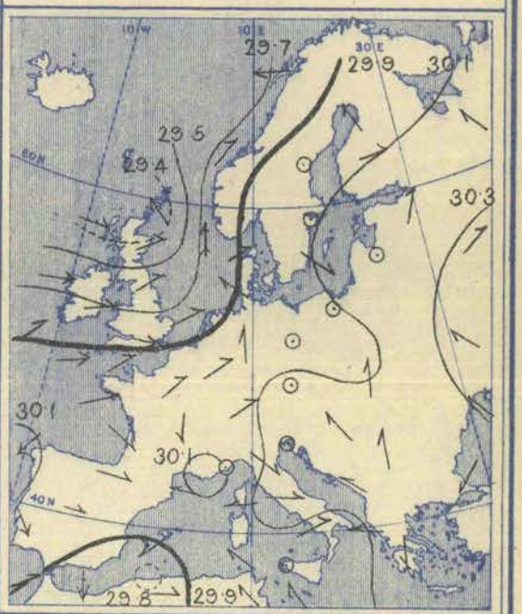
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of Scandinavia, as well as over south-eastern Europe and on the Portuguese coast; overcast and unsettled over the British Islands and their neighbourhood, with mist or rain in many places; snow falling in the north of Russia. Rain falling later in all parts of our Islands, hail in the extreme north-west, and general appearance unsettled.

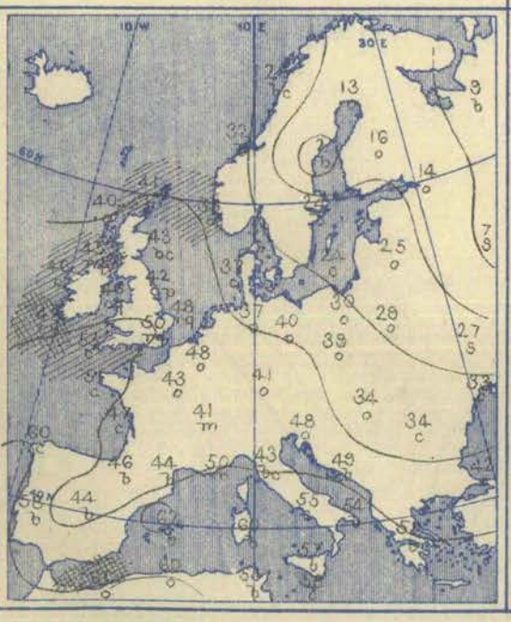
Temperature changing fitfully—risen over Ireland and Scotland, fallen over England. Morning readings highest, 61° at Palma, 60° at Cagliari, and exceeding 50° on the Mediterranean coasts generally, as well as at the Portuguese stations, at Scilly and Valencia (Ireland). Lowest, 2° Fahr. at Hernösand, 7° to 10° at stations in Finland, 23° at Riga, 9° at Kharkov, 14° at Kiev, and below the freezing point over Germany and Hungary, 34° at Paris, 35° to 37° over England, 38° at Aberdeen and Sumburgh Head. Rising later to between 50° and 56° over Ireland and England, to 64° at Lyons and Perpignan, to 68° at Palermo, and to 73° at Algiers.

Wind light and variable (mainly anticyclonic) over Continental Europe; Southerly to Westerly (cyclonic) in our Islands, and blowing strongly in Ireland and Scotland, and a gale at Stornoway; Southerly to Easterly in the west of Norway. Veering westwards all over the United Kingdom later, and blowing a fresh, gusty breeze, and increasing to a gale at Skudesnaes.

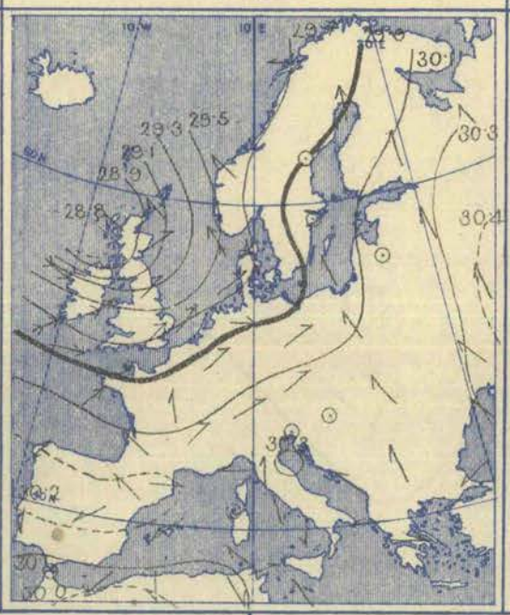
Barometer (1) highest, 30·3 ins. and more to 30·6 ins. over Russia and south-eastern Europe; (2) 30·0 ins. and more over the Bay of Biscay. Lowest, 29·4 ins. and less in a depression off our north-western coasts; gradients moderate over Ireland and Scotland; slight elsewhere. Depression in north-west moving north-eastwards later, and barometer rising both over Ireland and Russia. A "V" shaped secondary disturbance appearing over the North Sea.

Monday, 16th March.

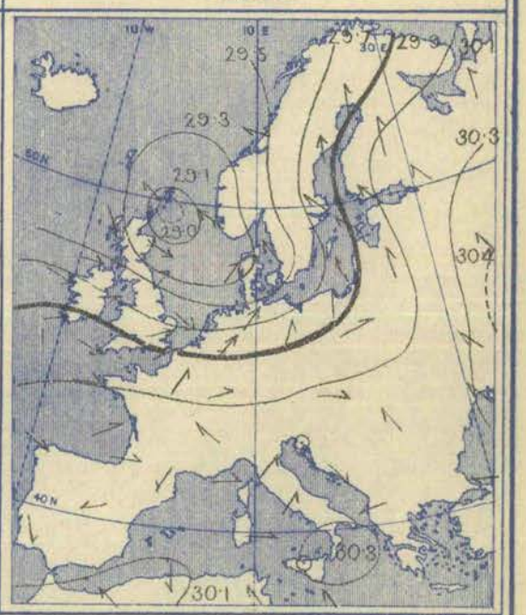
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean and southern Europe, as well as in the north of Scandinavia; cloudy or overcast and very unsettled over the British Islands and their neighbourhood; dull over central Europe and Russia, with snow in places. Rain and hail showers very prevalent in various parts of the United Kingdom later, as well as over Sweden, the Baltic, Denmark, and some parts of Germany; amounts large over Denmark; sky clearing subsequently over the United Kingdom.

Temperature risen considerably over Great Britain and the greater part of Europe. Morning readings highest, 62° at Palma, 60° at Cagliari, Algiers, Nemours, and Corunna, 53° at Scilly, 51° at Jersey, 50° at Pembroke and in London. Lowest, (1) 2° Fahr. at Hernösand, 7° at Moscow, 9° at Archangel, 13° at Haparanda, 21° at Helsingfors. Rising later to between 50° and 57° over England and the south of Ireland, to 62° at Paris, to between 66° and 64° over the south of France, to 70° and more over Spain and several parts of Algeria.

Wind Westerly, a strong gale, over Ireland and the Irish Sea; South-Westerly and Southerly very strong and squally over England and the south of Scotland, and Southerly to Easterly over the north of Scotland, the neighbouring Islands, and the west of Norway. Light and variable over Continental Europe, but chiefly Southerly over Germany; South-Easterly over Russia. Blowing a gale from West over the United Kingdom later (heaviest at the north-western and northern stations), and from the Eastward in Norway; moderating over England towards evening.

Barometer highest, 30·4 ins. and more to 30·9 ins. over Russia and the Baltic, and exceeding 30·0 ins. over all the southern countries; 30·36 ins. at the Azores. Lowest, 28·75 ins. to 28·90 ins. in a complex depression covering the western parts of Scotland, the north of Ireland, and the adjacent parts of the Atlantic; gradients very steep over the northern parts of Ireland. The depression breaking into two parts later—one moving north-eastwards, the other eastwards towards Denmark.

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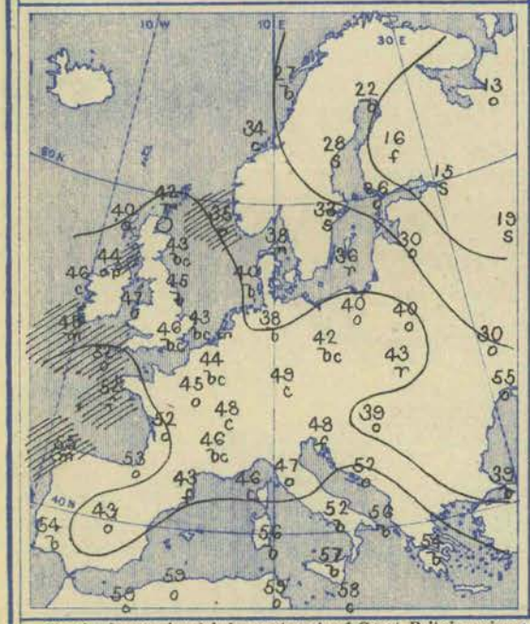
Tuesday, 17th March.

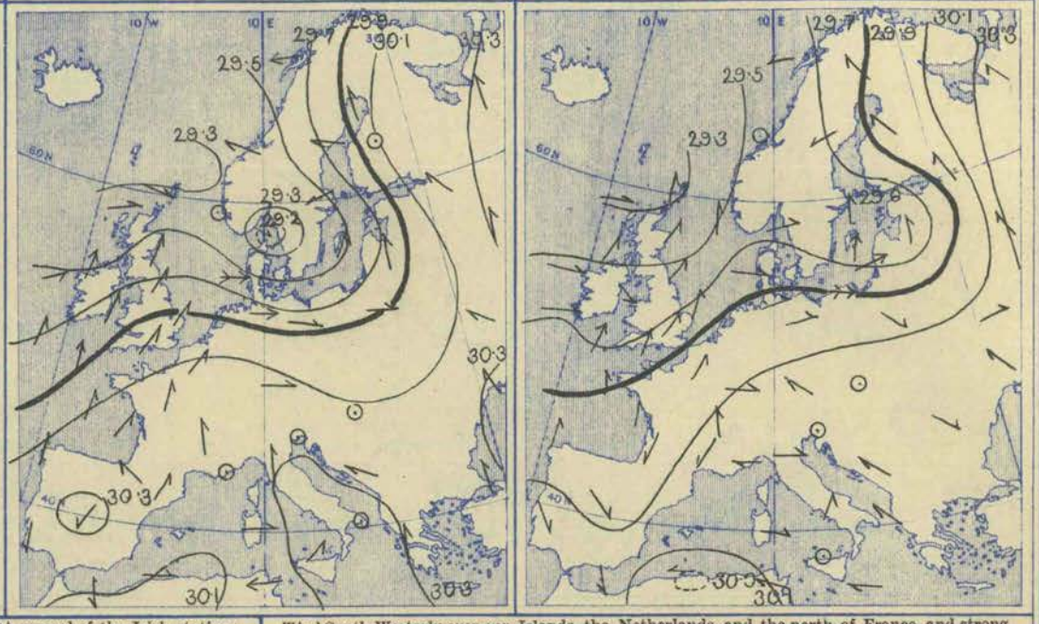
Temperature and Weather. 8 a.m.



Weather in morning fair in most parts of Great Britain, rainy at several of the Irish stations, and also in the west of Scotland. Fine over central and eastern Europe, as a whole, as well as in the extreme north of Scandinavia; dull in most other parts of the Continent, with rain at Wisby and Copenhagen, and snow at several of the Scandinavian stations, as well as at St. Petersburg and Moscow. Rain spreading eastwards later over nearly the whole of the United Kingdom, amounts large at some of our southern stations and over Brittany.

Temperature highest, 59° at Barcelona, Nemours, Oran, Algiers, and Tunis, and 58° at Malta; above 50° at the Mediterranean and Spanish coast stations generally, and also over the western parts of France and the English Channel. Lowest, 13° at Archangel, 15° at St. Petersburg, 16° at Kuopio, and 17° at Uleaborg; below the freezing point over nearly the whole of Russia and the north of Scandinavia. Rising during day to between 50° and 55° in many parts of the United Kingdom, and reaching 57° at Loughborough. Exceeding 60° over the southern parts of France, reaching 68° at Biarritz, 70° at Clermont, Toulouse, and Marseilles, 72° at Oporto, 73° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.

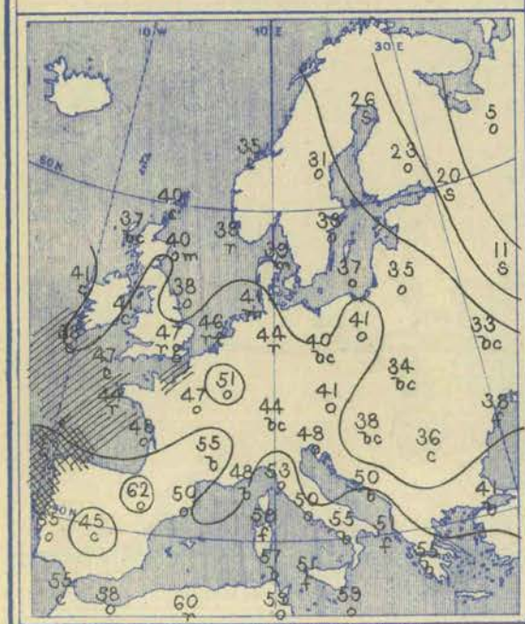


Wind South-Westerly over our Islands, the Netherlands, and the north of France, and strong in force on some parts of our western coasts. Moderate from the Westward over Germany, and strong to a gale from the same quarter or from South-West over Denmark and the southern parts of the Baltic, South-Easterly in Russia. Easterly at most of the Scandinavian stations. Calm or light and variable over southern Europe generally; subsequently veering to the North-Westward on some parts of our western coasts; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in four areas, one lying over the north-east of Russia, another over the Black Sea, a third over Italy and the neighbouring parts of the Mediterranean, and a fourth over central Spain. Lowest, 29·2 ins. and less in a well-marked depression over the south of Sweden, with its centre near Gothenburg; 29·3 ins. and less, in a shallow system, between the Shetlands and the coast of Norway. Small secondary disturbances being developed later over the south-west of our Islands, and neighbouring parts of the Atlantic, and barometer falling irregularly in most parts of the Kingdom.

Wednesday, 18th March.

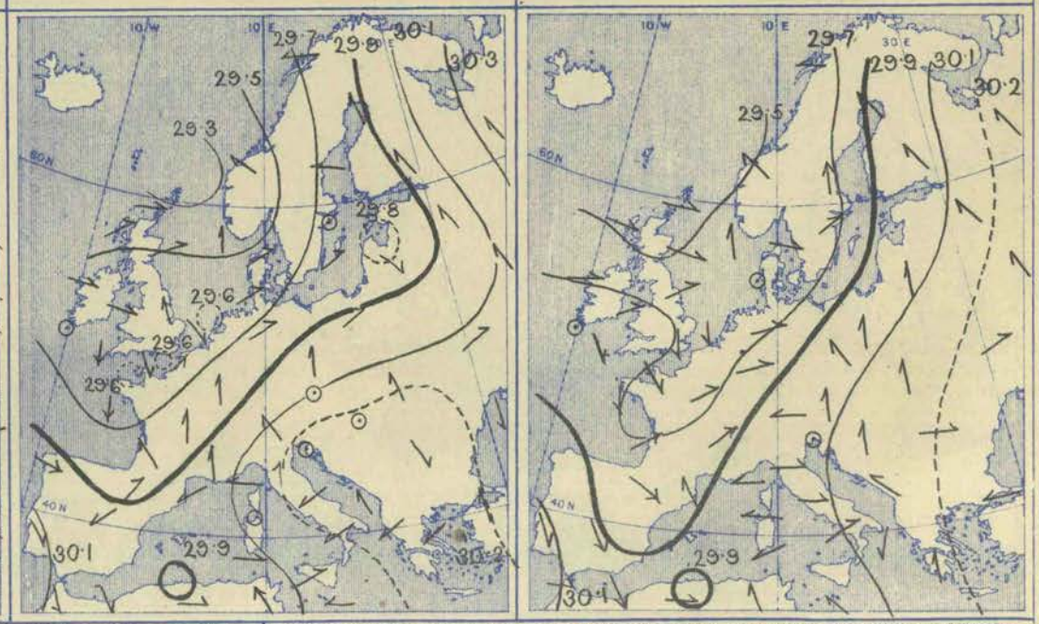
Temperature and Weather. 8 a.m.



Weather in morning fine and bright at the Scotch stations and at Bodö, as well as over Italy, the Adriatic, and south-eastern Europe; cloudy or overcast elsewhere, with much rain over the south of England and the north of France, as well as over the eastern shores of the North Sea; snow in many parts of Russia. Rain continuing over the south-east of England and north of France during day, snow falling in many parts of Sweden, Finland, and the Baltic. Considerable rain at Tunis, and a heavy fall at Biarritz. Sky clearing over England at night.

Temperature fallen fast in Ireland, slightly over England, risen over the east and north-east of France and over northern Europe. Highest, 62° at Biarritz, 60° at Algiers, and exceeding 50° at most Mediterranean stations, 52° at Lorient, 51° at Jersey, 49° at Dungeness, 48° at the Helder. Lowest, (1) 5° at Archangel, 11° at Moscow, and below the freezing point over Russia, Finland, and Lapland generally; (2) 37° at Stornoway, 35° at Nairn and Shields, 40° at Leith and Loughborough. Exceeding 50° later at a few of our own stations, and touching 62° at Paris, 71° at Rochefort, and 72° at Biarritz.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind (1) South-Westerly moderate over Scotland, Holland, Denmark, and the Baltic, and South-Easterly to Easterly over the northern parts of Scandinavia; (2) light to fresh and variable, but cyclonic, over the southern half of England, the north of France and Belgium, currents of air from the Southward and Northward being much intermingled; (3) light and anticyclonic over south-eastern Europe; (4) a slight cyclonic circulation off the Algerian coast also. Northerly breezes becoming more general over England later, but wind becoming more Westerly in Scotland.

Barometer (1) highest, 30·3 ins. to 30·0 ins. over Russia and the whole of south-eastern Europe; (2) 30·1 ins. to 30·0 ins. over the southern and south-western parts of the Spanish Peninsula. Lowest, 29·3 ins. and less in a depression lying over the Shetland Islands and their neighbourhood; (3) about 29·6 ins. in three local disturbances over the Channel, the south of England, and off our east coasts; below 29·8 ins. in another over the Gulf of Riga, and below 29·9 ins. in another near Algiers. The local disturbances over our southern and eastern districts and the anticyclone over south-eastern Europe all moving eastwards later.

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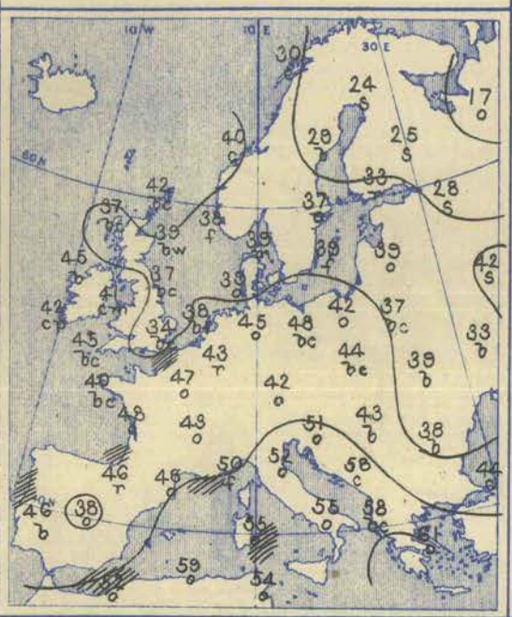
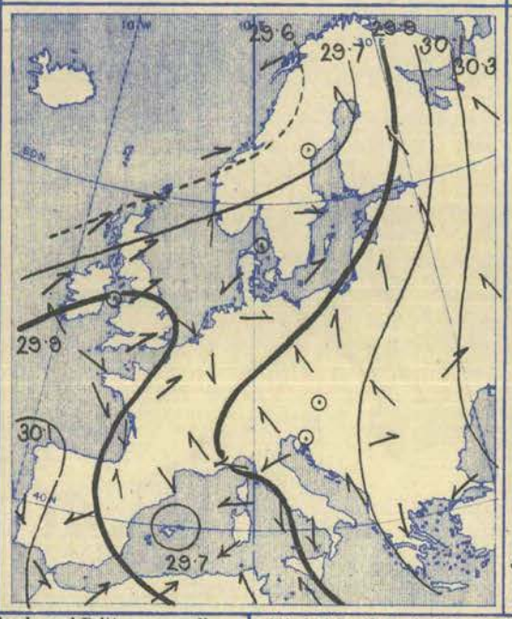
Thursday, 19th March.

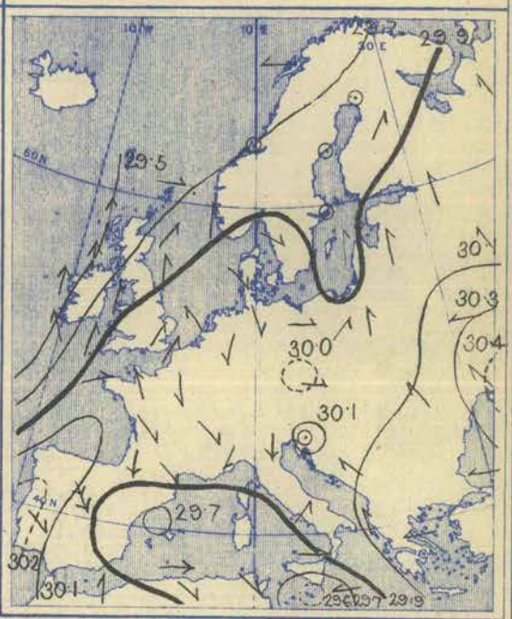
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Portugal, the British Islands, and Brittany, as well as Austria-Hungary, Poland, and western Russia; dull and unsettled over France, with rain in places; foggy over the south of Scandinavia and some parts of central Europe; snow falling over Finland and the north of Russia; cold rain at Hangö and Helsingfors. Considerable rain in the south-west of France, the south-west of Ireland, and in the Hebrides later, and smaller quantities over the western and northern parts of the United Kingdom generally.

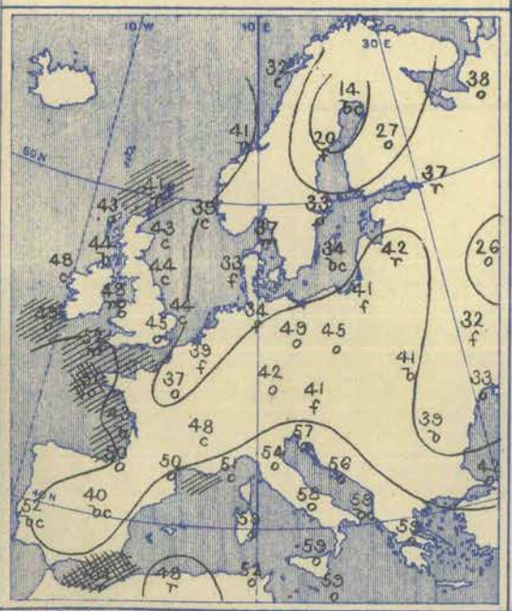
Temperature in morning highest, 61° at Patras, 59° at Algiers, 57° at Malta, and exceeding 50° at most of the Mediterranean stations, 47° at Lorient, 46° at Prawle Point, and 45° at Belmullet. Lowest, 17° at Archangel, 24° at Haparanda, 28° at St. Petersburg, 29° at Hernösand, 30° at Bodö, 30° at Loughborough, 33° at Cambridge, 34° in London, 36° at Parsonstown. Rising later to between 50° and 55° over the greater part of our Islands, and touching 57° at many of the French stations, 58° at Lisbon, and 66° at Nice. Falling briskly over England at night.

Wind (1) South-Easterly to South-Westerly and light in force at the Irish and Scotch stations, and in the south-west of Norway, but South-Easterly to Easterly over Lapland and Finland; light and very variable (anticyclonic) over England and the English Channel; (2) light and mainly South-Easterly over Russia and central Europe; Northerly over Italy; (3) moderate Easterly over the northern parts of the Mediterranean; South-Westerly over Algeria. Backing to the Southward over the United Kingdom later, and increasing to a gale at our western and northern stations.

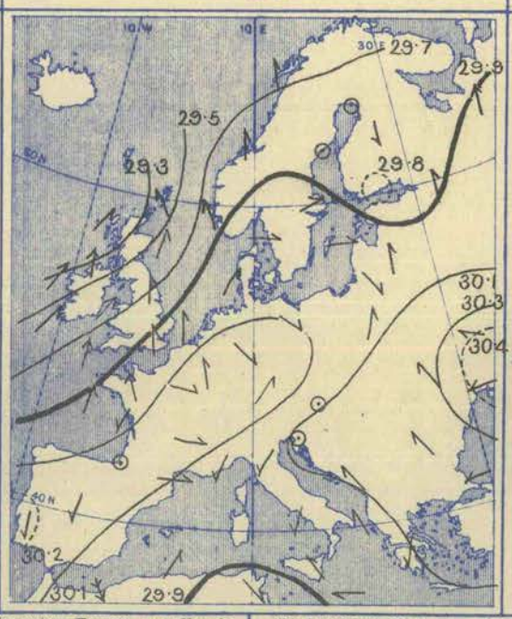
Barometer highest, (1) 30·4 ins. to 30·0 ins. over Russia, south-eastern Europe, and the Adriatic; (2) 30·46 ins. over the Azores, and 30·0 ins. over the western parts of the Iberian Peninsula. Lowest, (1) below 29·6 ins. in a large low pressure system lying to the northward of Scotland, and about 29·7 ins. in a small secondary lying over Holstein; (2) about 29·7 ins. to 29·8 ins. in another disturbance lying over the western part of the Mediterranean. A somewhat deep depression advancing towards the Irish coasts later, but barometer rising over Scandinavia, the North Sea, and France.

Friday, 20th March.

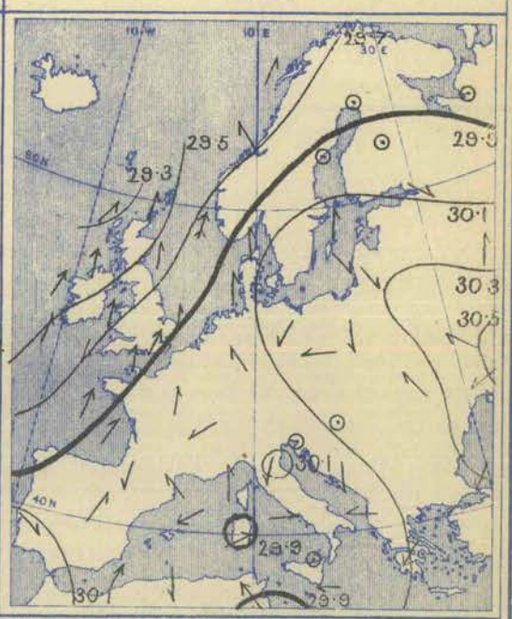
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern and south-western Europe, as well as in several parts of Scandinavia, and at some of our own northern stations; cloudy or overcast elsewhere, with rain in many parts of England, as well as over the south of Finland, the Baltic provinces, and at many of the Algerian stations and Barcelona; snow reported even at Aumale. Rain falling later in all parts of the British Islands and the north of France. Heavy rain over Algeria also. Thunder and lightning on our extreme north-west coasts.

Temperature risen quickly over the British Islands and north of France, fallen quickly over Russia and the Baltic. Highest, 59° to 50° at most of the Mediterranean stations, 53° to 50° on the Atlantic coasts of Spain and Portugal, 52° at Scilly, 49° at Valencia, and above 40° over the United Kingdom generally. Lowest, (1) 14° at Haparanda, 20° at Hernösand, 27° at Kuopio; (2) 18° at Kharkov, 26° at Moscow, 32° at Kiev; (3) 32° at Le Mans, 37° at Paris, 40° at Madrid; (4) 39° at Aumale. Rising during day to between 50° and 54° over the greater part of our Islands, to 55° at Berlin, 58° at Paris, and to between 60° and 66° in the west and south of France and the south of Italy, to 68° at Sfax, and 72° at Biskra.

Wind (1) South-Westerly and Southerly over the United Kingdom generally, and fresh to strong in force; South-Easterly, strong at Skudesnaes, and Southerly in the north-west of Norway; (2) light and anticyclonic over south-western, central, and eastern Europe; (3) Easterly over the northern parts of the Mediterranean, Northerly at many of the stations in Tunis and Algeria, and blowing a gale at Nemours. Blowing a strong and squally breeze from the Southward over our south-eastern districts later, but moderating in the west and north.

Barometer highest, 30·34 ins. at Ponta Delgada (Azores), and exceeding 30·1 ins. over nearly the whole of Spain, central France, and western Germany, and exceeding 30·0 ins. over Denmark, northern and eastern Germany, and the central parts of Russia. Lowest, below 29·3 ins. over the Hebrides and north-west of Scotland; below 29·8 ins. over the Gulf of Finland, and below 29·9 ins. over Tunis. Rising later over Scotland and Scandinavia, falling over France and the south-east of our Islands, in which direction the disturbance in the north-west was surging.

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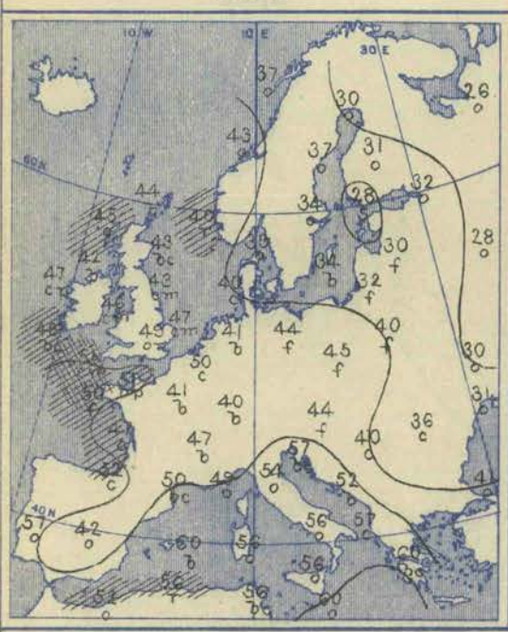
Saturday, 21st March.

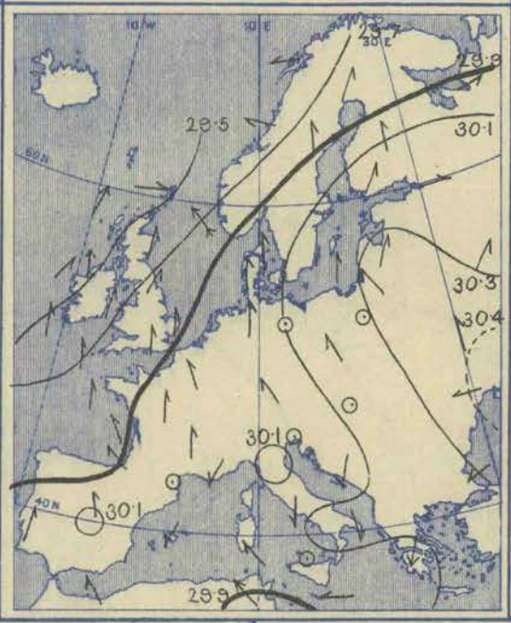
Temperature and Weather. 8 a.m.

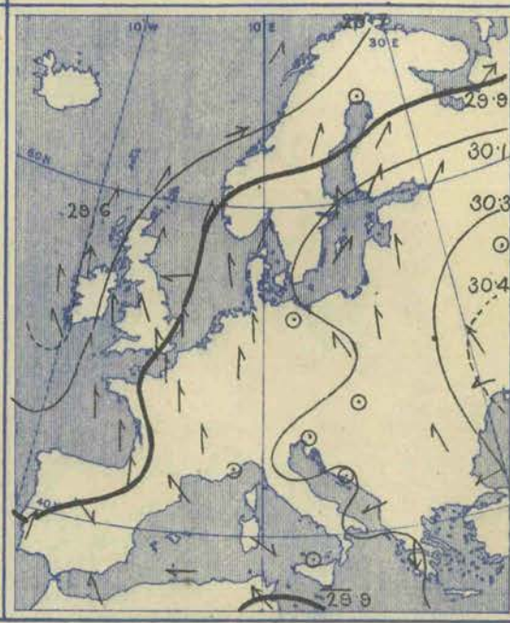


Weather in morning fine over south-eastern, southern, and central Europe, but very foggy over many parts of Germany; very variable over the British Isles, with rain in several parts of Brittany, England, and the North Sea, and also at Algiers. Showers falling later at most of our own stations, and on the eastern shores of the North Sea, as well as (locally) in some parts of Brittany and the south of France, and in Lapland.

Temperature risen somewhat over France and the south-east of England, as well as over northern Europe. Morning readings highest, 60° at Patras, Malta, and Palma, and exceeding 50° at most of the Mediterranean stations, as well as on the Atlantic shores of Spain, France, and the south-west of our Islands. Lowest, 26° to 32° over Russia and Finland, 38° at Copenhagen, 39° at the Scaw, and also at Nairn. Rising later to between 50° and 57° over the greater part of the United Kingdom, and touching 63° at Paris, 68° at Lyons, 72° at Biarritz, 70° at Palermo, and 72° at Cagliari.

Barometer and Wind. 8 a.m. 6 p.m.





Wind light and anticyclonic over eastern and central Europe; South-Westerly to Southerly over Spain, the British Islands, and North Sea; South-Easterly to Easterly in Norway, and moderate to fresh in force. Shifting to South-West over Scandinavia later, and backing to South over Portugal, and South-South-East at Valencia.

Barometer highest, 30·4 ins. and more over the south of Russia, and exceeding 30·0 ins. over the whole of eastern, central, and southern Europe. Lowest, 29·5 ins. and less over the extreme north-western parts of the British Islands; gradients moderate for Southerly winds over the United Kingdom, slight and rather irregular, but anticyclonic elsewhere. Rising throughout our Islands later, falling over Spain and France. "V" shaped secondary approaching France from the Bay of Biscay.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky*; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather experienced during this week was again unsettled and showery over the British Islands and western Europe, and about the middle of the week the unsettled conditions spread over the northern parts of France and Germany. As a whole, however, the weather has been fair over the south-western, central, and south-eastern countries. Pressure has been high over the Azores and south-western Europe, as well as over the central and south-eastern parts of Russia, and a broad "col" uniting these systems has stretched across France and Germany. Depressions of considerable depth (especially that of the 16th and 17th) have appeared in the extreme north-west, and on Wednesday several small and shallow secondary disturbances were observed over the south-east of England and north of France.

At the close of the week the distribution was becoming more uniform, and favourable for Southerly and South-Easterly winds and rising temperature.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	34·0	+11·4	41	+ 14	SOUTHPORT	15·8	?	19	?
OSWALDKIRK (Yorkshire)	24·6	- 2·1	30	- 2	MANCHESTER (Oldham Road)	17·9	?	22*	?
WORKSOP	26·4	- 3·6	25	- 4	COLWYN BAY	36·3*	?	44*	?
THURCASTON (Leicestershire)	26·3	- 2·7	24	- 4	TENBY				
MARGATE	18·1	-10·4	22	- 12	NEWQUAY	24·3	- 8·4	29	- 10
WESTBOURNE (Sussex)	16·3*	-16·2	20*	- 20	TORQUAY	19·5*	-13·5	23*	- 17
BRIGHTON	17·3	-13·2	21	- 16	ARLEY COTTAGE (County Cavan)	29·9	+ 6·6	36	+ 8
EASTBOURNE	18·9	-13·8	23	- 16	GUERNSEY	12·3*	-23·2	15*	- 28

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 13.] *Third Series.* WEEK ENDING SATURDAY, MARCH 28TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 74.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Observed during the Week. Averages of Daily Maxima.	Observed during the Week. Averages of Daily Minima.	Observed during the Week. Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From December 29th, 1895. Above 42°	From December 29th, 1895. Difference from Mean.	From December 29th, 1895. Below 42°	From December 29th, 1895. Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	29	48·2	38·8	43·4	3 above	23	+10	9	−24	163	+ 64	264	−234
	1. SCOTLAND, EAST	58	30	51·2	36·8	43·8	3 above	34	+16	15	−18	181	+ 48	365	−166
	2. ENGLAND, N.E.	66	33	52·7	38·7	45·5	4 above	38	+19	9	−19	191	+ 56	291	−171
	3. ENGLAND, EAST	67	33	55·2	40·5	47·6	5 above	46	+23	4	−26	231	+ 63	321	−201
	4. MIDLAND COUNTIES	67	31	54·8	38·5	46·4	4 above	46	+18	10	−21	265	+ 82	305	−215
	5. ENGLAND, SOUTH	69	34	55·8	43·2	49·3	6 above	51	+25	0	−24	273	+ 74	213	−204
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	56	33	49·5	38·7	43·9	2 above	27	+10	9	−16	221	+ 76	206	−175
	7. ENGLAND, N.W.	57	31	50·4	39·2	44·7	1 above	31	+12	8	−16	248	+106	187	−201
	8. ENGLAND, S.W.	64	33	52·8	41·2	46·8	3 above	37	+12	2	−17	324	+ 98	142	−174
	9. IRELAND, NORTH	59	28	49·8	37·9	43·7	1 above	29	+ 6	11	−11	309	+115	150	−181
	10. IRELAND, SOUTH	59	31	52·4	40·7	46·4	2 above	36	+ 7	4	−13	417	+136	87	−167
	—CHANNEL ISLANDS	64	40	55·5	45·1	50·2	4 above	57	+27	0	− 7	469	+170	39	−100

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 74.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	Rainfall. From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	16	8 more	88	+ 3	17·9	+ 3·0	21	− 2	24	− 3	154	− 30	16	− 4
	1. SCOTLAND, EAST	4	2	3 less	50	+ 1	4·9	− 2·6	27	0	32	0	204	− 5	24	− 1
	2. ENGLAND, N.E.	4	7	2 more	39	− 8	4·1	− 1·4	31	+ 3	35	+ 2	182	− 25	21	− 3
	3 ENGLAND, EAST	4	6	2 more	47	+ 1	5·0	− 0·3	36	+ 6	42	+ 6	204	− 33	23	− 4
	4. MIDLAND COUNTIES	5	5	0 (average)	45	+ 1	4·5	− 1·7	34	+ 6	39	+ 7	188	− 28	21	− 4
	5. ENGLAND, SOUTH	5	4	1 less	42	− 1	4·4	− 2·4	45	+13	52	+15	202	− 40	23	− 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	9	0 (average)	61	+ 7	12·2	− 1·4	31	+ 3	35	+ 2	155	− 44	18	− 5
	7. ENGLAND, N.W.	6	12	7 more	53	+ 4	8·2	+ 0·4	27	+ 4	31	+ 4	134	− 44	18	− 5
	8. ENGLAND, S.W.	6	7	1 more	50	0	7·1	− 2·8	35	0	41	+ 1	206	− 60	23	− 7
	9. IRELAND, NORTH	5	12	6 more	56	− 1	9·3	0·0	21	− 5	24	− 6	168	− 36	19	− 4
	10. IRELAND, SOUTH	5	9	2 more	51	− 1	8·8	− 1·4	31	0	35	− 2	190	− 56	22	− 6
	—CHANNEL ISLANDS	6	3	2 less	53	− 2	4·9	− 3·7	43	+ 6	51	+ 7	256	− 48	28	− 5

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied considerably from time to time, but was generally fine and warm during the earlier days, and unsettled, colder, and rainy towards the end of the week. Thunderstorms occurred at several of the English stations on the 24th or 25th.

Temperature was again above the mean, the excess ranging from 1° in England N.W. and Ireland N., to 5° in England E., and 6° in England S. The highest of the maxima were recorded either on the 22nd or 24th, when they ranged from 69° in England S., and 67° in England E. and the Midland counties, to 57° in Scotland N. and England N.W., and to 56° in Scotland W. The lowest of the minima were registered on the 27th or 28th, and ranged from 28° in Ireland N. and 29° in Scotland N., to 34° in England S., and to 40° in the Channel Islands.

Rainfall was less than the mean in Scotland E., England S., and the Channel Islands, and just equal to it in the Midland counties and Scotland W. In all other districts there was an excess, that in England N.W. being large.

Bright Sunshine was rather less than the mean in Ireland and the north of Scotland, and only just equal to it in the east of Scotland; over England and the west of Scotland, however, there was an excess. The percentage of the possible duration ranged from 52 in England S., and 51 in the Channel Islands, to 31 in England N.W., and 24 in Scotland N. and Ireland N.

Barometer and Wind.—During the earlier part of this week depressions travelled north-eastwards over our extreme north-western and northern coasts, while some secondary systems passed directly over us. The winds were moderate in force and somewhat variable in direction, but were generally from between South-West and West. During the latter part of the period the depressions took a more easterly course, and a small, but deep, secondary system which passed eastwards over the Kingdom on the 26th, caused strong winds or gales on our southern and western coasts. At the end of the time a well-defined "V" shaped disturbance was passing over our Islands, and the wind in its rear had shifted to the North-Westward with colder weather.

NOTE.—Owing to the operation of the new Factory Act it is possible that the WEEKLY WEATHER REPORT for NEXT WEEK will not be issued until FRIDAY.

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213 70 4|96 1896

II.—DATA from which the SUMMARY on page 73 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	?		Incle.	inches.				
0. SCOTLAND, N.	Sumburgh Head	49	36	47·4	39·9	43·5	+ 4·5	19	6	7	1·34	+0·73	*	*	*	*
	Stornoway	52	34	47·9	38·7	43·2	+ 3·1	22	9	7	1·36	+0·58	23·6	− 2·5	27	− 4
	Wick	55	33	49·6	39·3	44·3	+ 4·2	27	8	6	0·50	+0·10	*	*	*	*
	Glencarron S	54	29	47·5	36·4	41·9	+ 2·4	15	23	7	3·25	+1·39	*	*	*	*
	Fort Augustus S	57	32	49·7	38·3	44·1	+ 3·6	28	9	7	1·09	+0·31	22·5	+ 2·7	26	+ 4
	Fort William S	52	35	47·3	33·6	43·2	+ 1·7	19	7	7	2·14	+1·16	17·3	− 6·4	20	− 9
1. SCOTLAND, E.	Nairn	58	33	51·9	37·0	44·2	+ 3·4	36	14	4	0·20	−0·10	*	*	*	*
	Aberdeen	55	25	51·3	39·3	45·1	+ 4·2	33	8	5	0·51	−0·29	24·4	−5·6	28	− 7
	Braemar S	54	30	47·6	35·2	41·2	+ 3·4	16	26	4	0·13	−0·37	30·3†	+ 2·5†	35†	+ 3†
	Ochtertyre S	57	30	52·1	35·7	43·7	+ 2·8	38	18	5	0·14	−0·50	*	*	*	*
	Leith S	57	33	53·4	37·1	45·0	+ 2·4	42	14	1	0·02	−0·35	*	*	*	*
	Marchmont S	56	30	50·9	36·4	43·4	+ 3·3	33	16	3	0·30	−0·27	27·9	+ 1·5	31	+ 1
2. ENGLAND, N.E.	Alnwick Castle	55	35	51·4	39·4	45·2	+ 4·4	33	7	4	0·68	+0·14	*	*	*	*
	Durham	65	33	54·1	38·0	45·8	+ 4·2	43	11	5	0·44	−0·04	34·3	+ 7·0	39	+ 6
	Shields	58	33	52·4	38·4	45·2	+ 3·5	28	10	5	0·35	−0·09	*	*	*	*
	Scarborough M	61	35	52·6	38·2	45·2	+ 2·9	38	11	4	0·85	+0·41	*	*	*	*
	York	66	33	54·7	37·4	45·8	+ 3·1	46	13	5	0·85	+0·43	24·2	− 2·8	28	− 3
	Spurn Head	58	36	50·9	40·6	45·6	+ 3·7	31	4	3	0·80	+0·48	*	*	*	*
3. ENGLAND, E.	Hillington M	62	33	55·5	40·0	47·5	+ 4·4	47	6	5	0·97	+0·58	33·2	+ 5·0	38	+ 4
	Yarmouth	61	35	50·6	41·9	46·1	+ 4·4	29	0	3	0·46	+0·02	*	*	*	*
	Geldeston	65	34	56·6	40·5	48·3	+ 5·5	50	4	4	0·61	+0·23	40·8	+ 8·8	47	+ 9
	Cambridge	67	33	58·1	40·7	49·1	+ 5·9	55	4	4	0·49	+0·14	37·4	+ 6·1	45	+ 9
	Rothamsted	63	33	55·3	39·5	47·1	+ 4·7	46	7	5	0·55	+0·13	33·3	+ 3·2	39	+ 4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	31	56·3	37·3	46·5	+ 3·7	51	13	4	0·21	−0·19	*	*	*	*
	Loughborough	66	32	56·3	38·6	47·2	+ 4·2	51	10	5	0·29	−0·11	*	*	*	*
	Stamford (Ketton Hall)	63	30	57·1	38·3	47·4	+ 4·7	53	10	5	0·34	−0·05	*	*	*	*
	Cheadle M	58	35	51·6	38·9	45·1	+ 3·5	35	9	6	0·97	+0·45	*	*	*	*
	Shirley (near Solihull)	63	36	52·9	39·5	46·0	+ 3·7	39	7	5	0·35	?	*	*	*	*
	Churchstoke M	60	32	52·9	35·8	44·1	+ 2·2	41	17	7	0·85	+0·39	35·7	+ 6·7	41	+ 8
	Hereford M	63	32	54·8	33·3	46·3	+ 2·5	46	10	5	0·34	−0·07	*	*	*	*
	Cirencester	64	30	55·1	37·9	46·3	+ 4·5	47	11	5	0·35	−0·14	36·9	+ 7·8	42	+ 9
	Oxford	65	37	56·0	41·6	48·6	+ 4·8	48	1	6	0·39	0·00	34·2	+ 4·9	40	+ 5
5. ENGLAND, S.	London	69	35	59·1	43·1	50·9	+ 6·6	62	0	3	0·28	−0·10	30·3†	+ 7·3†	35†	+ 8†
	North Foreland	62	34	54·7	43·4	48·9	+ 6·3	48	0	3	0·48	?	*	*	*	*
	Strathfield Turgiss M												*	*	*	*
	Dungeness	59	35	55·0	43·4	49·0	+ 6·1	49	0	4	0·43	−0·06	*	*	*	*
	Hastings (St. Leonards)	64	36	55·6	44·7	50·0	+ 6·3	56	0	3	0·24	−0·25	50·0	+15·0	58	+18
	Southampton	63	37	57·3	43·1	50·0	+ 5·4	56	0	6	0·40	−0·10	41·9	+ 8·4	49	+10
	Hurst Castle	58	40	54·9	44·1	49·3	+ 5·0	51	0	6	0·40	−0·05	*	*	*	*
	Stowell M	64	34	54·2	40·7	47·2	+ 4·8	42	4	7	0·62	−0·03	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart	55	36	50·0	41·5	45·1	+ 3·3	28	4	7	2·11	+0·69	*	*	*	*
	Glasgow	52	34	48·1	35·1	42·0	+ 1·3	23	11	4	0·38	−0·17	23·9	+ 0·9	27	+ 2
	Ardrossan	53	35	48·4	40·7	44·4	+ 2·1	22	4	5	0·48	−0·10	*	*	*	*
	Glenlee S	56	33	51·3	35·4	43·1	+ 2·5	35	18	7	0·68	−0·30	*	*	*	*
	Douglas (Isle of Man)	54	35	49·7	38·8	44·1	+ 1·7	28	9	5	0·68	0·00	37·7	+ 4·2	43	+ 3
7. ENGLAND, N.W.	Stonyhurst	54	35	49·2	37·6	43·2	+ 1·2	27	12	6	1·95	+1·18	28·0	+ 1·5	32	+ 1
	Blackpool M	55	31	50·2	37·3	43·6	+ 1·0	31	13	5	1·26	+0·72	31·0	+ 5·5	36	+ 7
	Manchester (Prestwich)	57	34	52·1	37·8	44·7	+ 2·0	37	12	6	1·36	+0·81	22·7	?	26	?
	Liverpool Obsy. (Bidston)	56	37	51·4	40·1	45·1	+ 2·0	30	5	6	0·96	+0·52	*	*	*	*
	Llandudno M	54	38	51·1	40·8	45·8	+ 1·3	32	3	5	0·93	+0·43	*	*	*	*
	Holyhead	53	38	49·6	41·7	45·5	+ 0·8	26	1	6	0·76	+0·24	*	*	*	*
8. ENGLAND, S.W.	Llandovery	64	33	54·6	37·7	45·9	+ 2·9	45	12	7	1·34	+0·57	*	*	*	*
	Pembroke	52	39	49·3	42·4	45·8	+ 1·5	27	0	7	0·42	−0·11	28·6	− 6·1	33	− 7
	Bristol (Montpelier)												*	*	*	*
	Arlington (N. Devon)	59	36	52·1	39·7	45·7	+ 4·6	36	6	5	0·96	+0·18	*	*	*	*
	Cullompton M	61	36	55·4	40·2	47·6	+ 2·9	47	5	5	0·59	+0·11	36·7	+ 5·2	43	+ 8
	Falmouth	56	38	52·6	42·7	47·5	+ 2·1	39	0	5	0·51	−0·14	31·7	− 3·3	37	− 4
	Plymouth	56	37	53·2	43·1	48·0	+ 2·3	42	0	5	0·37	−0·21	39·1	+ 5·1	45	+ 5
	Prawle Point	56	37	52·3	42·6	47·3	+ 2·9	37	0	6	0·51	+0·06	*	*	*	*
9. IRELAND, N.	Malin Head	54	36	48·1	41·0	44·5	+ 1·5	22	3	5	1·22	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	54	32	49·0	36·9	42·8	+ 1·5	27	14	6	1·23	+0·64	*	*	*	*
	Belmullet	53	36	48·9	41·9	45·3	+ 0·7	24	0	7	1·84	+1·02	*	*	*	*
	Markree Castle	56	32	49·8	37·4	43·4	− 0·1	29	13	6	1·46	+0·84	16·6	− 9·7	19	−12
	Brookeborough												*	*	*	*
	Armagh	55	32	50·8	36·9	43·6	+ 1·0	33	14	4	0·74	+0·29	26·3	+ 0·4	30	+ 1
	Donaghadee	59	32	52·0	36·9	44·2	+ 0·5	37	14	5	0·52	+0·02	*	*	*	*
	Edgeworthstown	54	28	50·3	34·6	42·3	+ 1·1	33	21	4	1·25	+0·62	*	*	*	*
10. IRELAND, S.	Dublin	59	34	53·1	40·2	46·5	+ 1·7	39	5	4	0·51	+0·02	43·2	+11·9	50	+13
	Parsonstown	58	31	52·3	38·1	45·0	+ 1·4	37	11	4	0·39	+0·36	27·5	− 1·3	32	− 2
	Kilkenny	57	31	52·9	36·9	44·7	+ 1·1	40	14	4	0·53	+0·06	*	*	*	*
	Roche's Point	55	38	52·4	44·3	48·2	+ 2·5	43	0	4	0·54	−0·19	*	*	*	*
	Valencia	55	39	52·3	42·7	47·4	+ 0·5	38	0	6	1·30	+0·36	21·0	−12·5	24	−15
	Killarney	56	34	51·4	41·0	46·5	+ 1·5	32	0	6	1·19	?	*	*	*	*
	Foynes	?	37	?	41·7	?	?	?	?	6	1·09	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	42	54·3	45·1	49·6	+ 2·8	53	0	6	0·30	−0·22	40·3	?	47	?
	Jersey	64	40	53·6	45·1	50·7	+ 4·3	61	0	5	0·30	−0·26	42·7	+ 3·7	50	+ 4

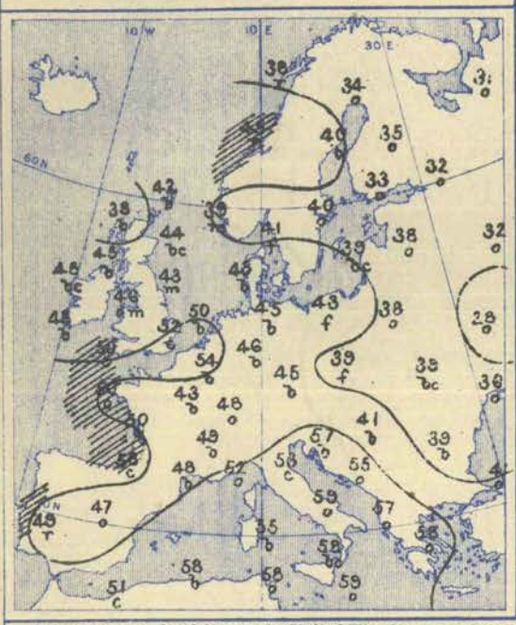
Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

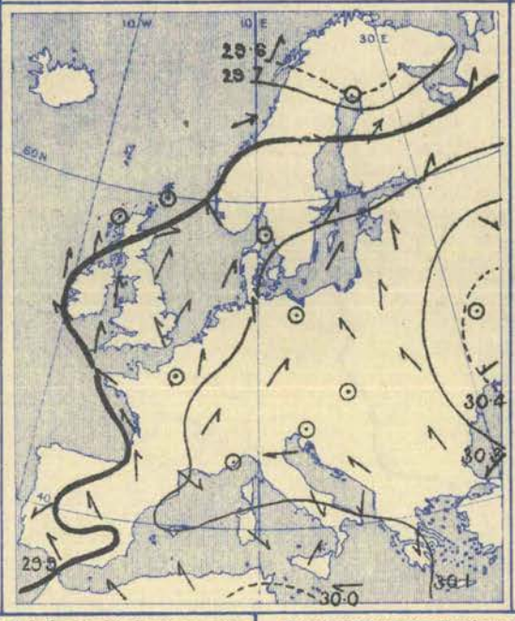
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 22nd March.

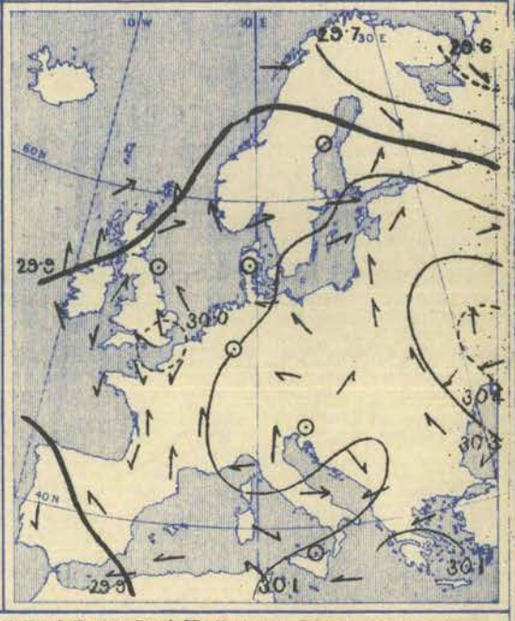
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the United Kingdom as a whole, but dull and misty in places, with rain at Spurn Head. Fine over the western parts of the Continent and also in Italy; foggy in Denmark, eastern Germany, and Austria; dull in Russia, as well as over the Spanish Peninsula, with rain at Lisbon. Subsequently becoming fine over nearly the whole of Europe, but thunder and lightning occurring in evening over the south-eastern parts of England, as well as at Servance and Oxö.

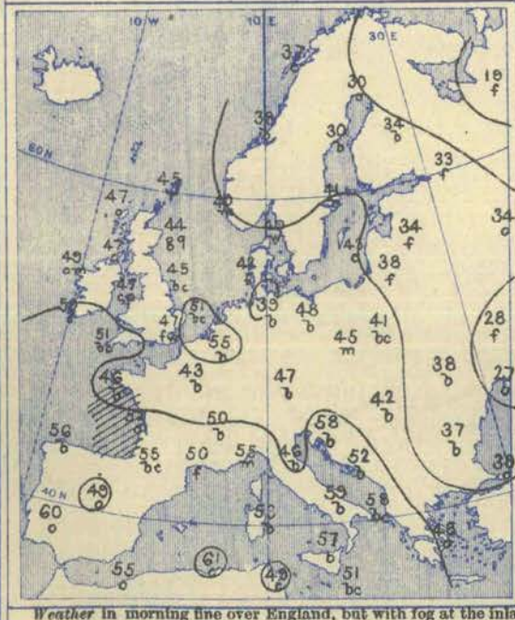
Temperature risen in most places. Morning readings highest, 60° at Barcelona and Sfax, 59° at Bilbao, Naples, and Malta; above 55° at most of the Mediterranean and Spanish coast stations, and above 50° in the Channel Islands and the south-east of England. Lowest, 18° at Kharkov, 27° at Nicolaieff, 28° at Kiev, and 31° at Archangel. Rising during day to 55° and upwards at some of our own northern stations, and to 61° and upwards over the south-eastern parts of England, reaching 67° at Cambridge, and 68° in London. Exceeding 70° in some parts of France and southern Italy.

Wind light from the Southward (South-East to South-West) over our Islands, the Netherlands, and Denmark; moderate to strong from the South-Westward over Scandinavia and northern Russia. Light from the Eastward in the south of Russia; calm or variable over Germany and Austria; Northerly in Italy; Easterly over Spain and the west of France. Subsequently becoming rather variable over France and the south-east of England; no material change occurring elsewhere.

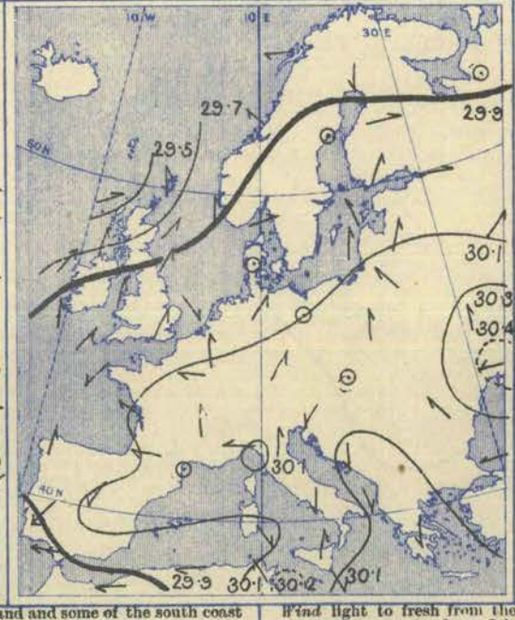
Barometer highest, 30·4 ins. and upwards in the south of Russia; 30·1 ins. and upwards in an anticyclone covering the whole of eastern and central Europe, and extending southwards over Italy. Lowest, 29·6 ins. and less in a depression over the north of Scandinavia. Depression subsequently moving eastwards, but new disturbance beginning to approach the north of Scotland from the westward. Small shallow depression forming over the eastern part of the English Channel during day.

Monday, 23rd March.

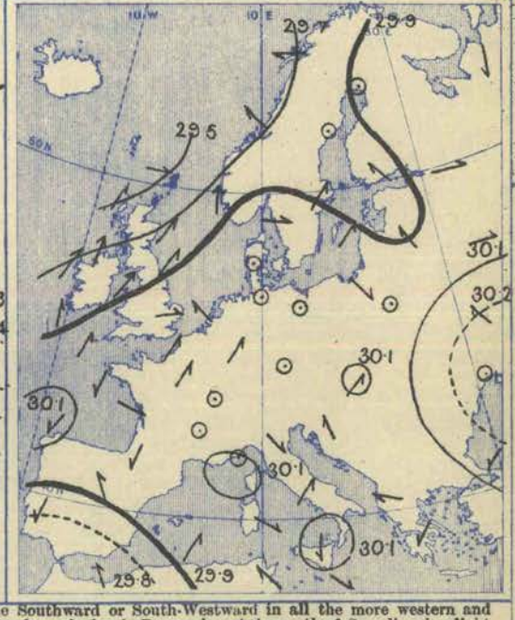
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over England, but with fog at the inland and some of the south coast stations; dull in Ireland and Scotland, with rain at Sumburgh Head. Fine over the greater part of the Continent, but foggy or misty at many of the northern and central stations; dull in Turkey, Greece, and the extreme south of Russia. Rain falling later at several of our own western and northern stations, as well as over Sweden and the Gulf of Finland. Lunar halos seen at Holyhead and Roche's Point.

Temperature risen in Ireland and Scotland, fallen in England and the northern parts of Scandinavia, changed irregularly elsewhere. Morning readings highest, 61° at Oporto and Algiers, 60° at San Fernando, and 59° at Naples and Sanguinaire; above 55° at many of the Mediterranean and Spanish coast stations, and above 50° on our own southern coasts. Lowest, (1) 19° at Archangel, and 24° at Uleaborg; (2) 21° at Kharkov, 25° at Nicolaieff, and 27° at Odessa. Rising during day to 55° and upwards at most of the English stations, and to 62° in London and at Cambridge. Exceeding 70° in several parts of France, Spain, and southern Italy, and reaching 75° at Oporto.

Wind light to fresh from the Southward or South-Westward in all the more western and northern parts of our Islands, and also in Denmark and the south of Scandinavia; light from the Eastward in the west of Norway. Light from the Westward or North-Westward over the south-eastern parts of England, but from the Southward in the Netherlands. Easterly over France and the Spanish Peninsula; strong in force in the south of Spain, with a gale at San Fernando; calm or variable over Germany, Austria, and the central and southern parts of Russia; Northerly in Greece and Italy. Subsequently backing to the South-Westward or Southward in the south-east of England, but shifting to the Northward in the west of France.

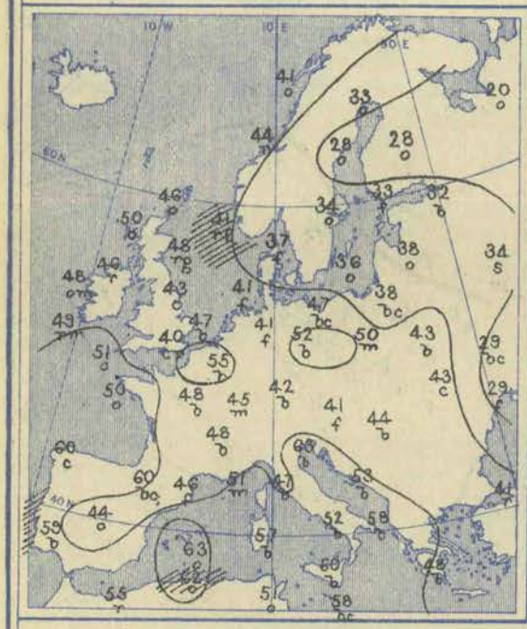
Barometer highest, 30·3 ins. to 30·4 ins. in the south of Russia; 30·1 ins. and upwards in an anticyclone extending thence over nearly the whole of central and southern Europe. Lowest, 29·5 ins. and less in a depression lying to the northward of Scotland; 29·9 ins. and less in another system to the south of Spain. Slight fall of barometer taking place over western Europe during day, but general distribution of pressure remaining unchanged.

Wyman & Sons, Lt., Lith., 63, Carter Lane

Tuesday, 24th March.

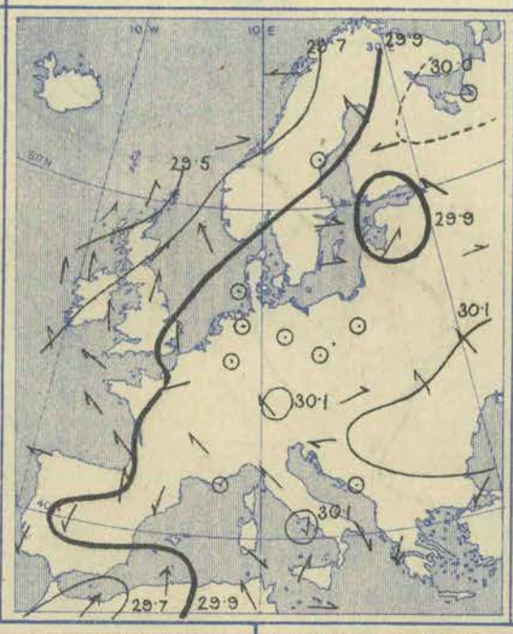
Temperature and Weather.

8 a.m.

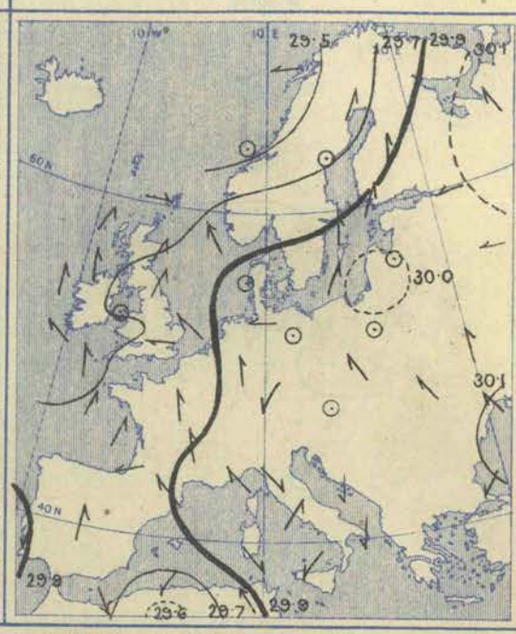


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over our Islands as a whole, with rain or passing showers in isolated places. Fine in the north and east of England, as well as over France and the greater part of central and southern Europe. Foggy over Holland, Denmark, the south of Scandinavia, and the Gulf of Finland; dull in Russia and Scandinavia, with snow at Moscow, and rain in the west of Norway. Showers falling during day in many parts of the United Kingdom, and thunderstorms or lightning only reported at several of the English stations. Heavy rain occurring in Algeria.

Temperature changed rather irregularly. Morning readings highest, 64° at Bilbao, 63° at Palma, and 62° at Algiers; ranging between 55° and 60° at the Mediterranean and Spanish coast stations generally. Lowest, 20° at Archangel, 21° at Kharkov, and 28° at Uleaborg, Kuopio, and Nicolaieff. Rising during day to 65° and upwards over the inland parts of England, and to 69° in London. Exceeding 70° at Brussels, and several of the French, Spanish, and Italian stations; reaching 73° at Paris and Charleville, and 75° at Bilbao.

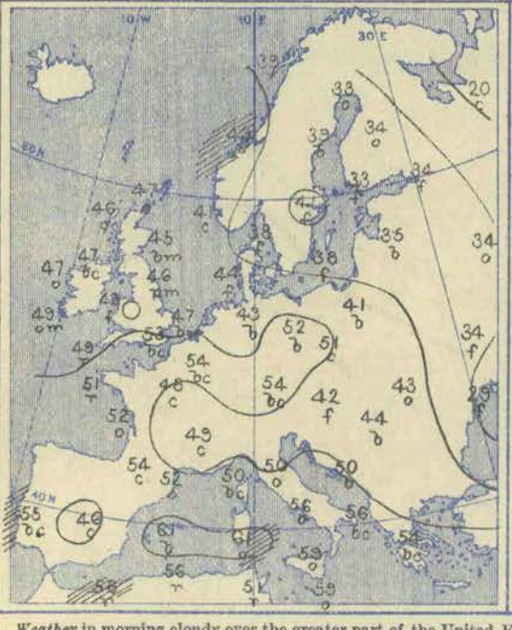
Wind light to moderate from the Southward or South-Westward over all the more northern parts of our Islands; Easterly or South-Easterly over the south of England and the greater part of France. Calm or variable over the central parts of the Continent; Southerly or South-Westerly in the south of Scandinavia; Easterly or South-Easterly over the northern parts of Russia and Scandinavia. Light from the Northward (North-West to North-East) over southern Europe generally, but fresh to strong from the Southward in Algeria. No important change occurring during day.

Barometer highest, 30·1 ins. and upwards over the Black Sea, the south of Russia, and eastern Austria; 30·0 ins. and upwards in an anticyclone covering the whole of eastern and central and a considerable portion of southern Europe, as well as in another system over the north of Russia. Lowest, 29·5 ins. and less in a depression over the north of Scotland; 29·7 ins. and less in another disturbance over Morocco. Shallow secondary systems passing northwards across our Islands during day, and barometer falling slowly in most places.

Wednesday, 25th March.

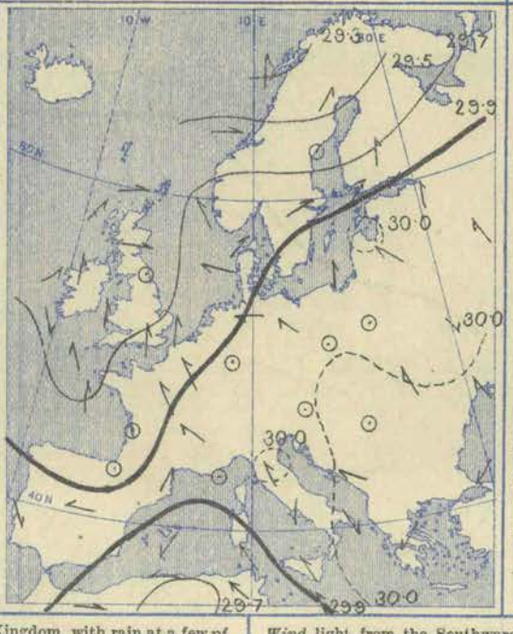
Temperature and Weather.

8 a.m.

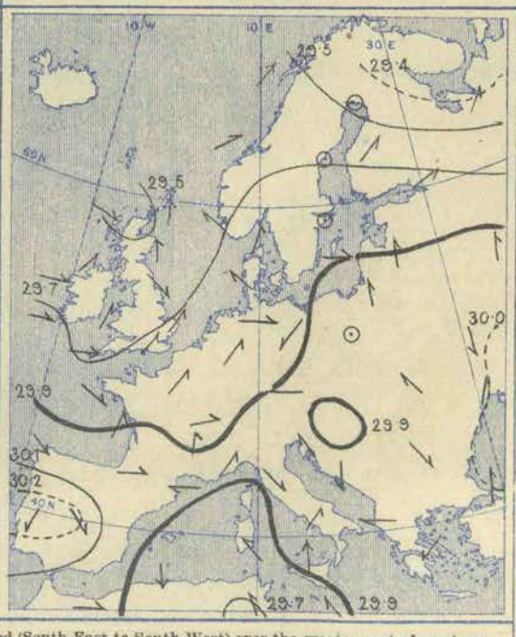


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the greater part of the United Kingdom, with rain at a few of the western and northern stations, and with fog in the St. George's Channel. Fine in the east of England, and also over the Netherlands, Germany, Austria, and the Adriatic. Foggy over Denmark, the south of Sweden, and the Gulf of Finland, as well as in the south of Russia; cloudy at most of the French, Spanish, and Italian stations. A little rain falling during day in many parts of western Europe; thunderstorm occurring at Shields in afternoon.

Temperature risen in England, and also in Denmark and Sweden, fallen in Ireland and Scotland, changed irregularly elsewhere. Morning readings highest, 61° at Palma and Cagliari, and 59° at Barcelona, Palermo, and Malta; above 55° at the Mediterranean stations generally, and above 50° at some of our own southern stations. Lowest, 20° at Archangel, 29° at Odessa and Nicolaieff, and 32° at Helsingfors and Memel. Rising during day to 60° and upwards over the eastern and central parts of England, and reaching 66° at York. Exceeding 65° in many parts of central and southern Europe, and reaching 72° at Florence.

Wind light from the Southward (South-East to South-West) over the greater part of western, central, and northern Europe, but calm and variable on our own north-east coasts, and North-Westerly at Valencia (Ireland). Light and variable over the southern countries as a whole, but moderate to fresh from the South-Eastward over the central parts of the Mediterranean. Subsequently veering to the Westward or North-Westward on our extreme west and south-west coasts generally; no important change occurring elsewhere.

Barometer highest, 30·0 ins. and upwards in an anticyclone covering the whole of south-eastern Europe, and also in another system lying to the south-westward of the Spanish Peninsula. Lowest, 29·3 ins. and less in a depression off the north-west of Norway; shallow secondary disturbances formed over various parts of our Islands. Latter systems moving eastwards or north-eastwards during day, and barometer rising on our west and south-west coasts.

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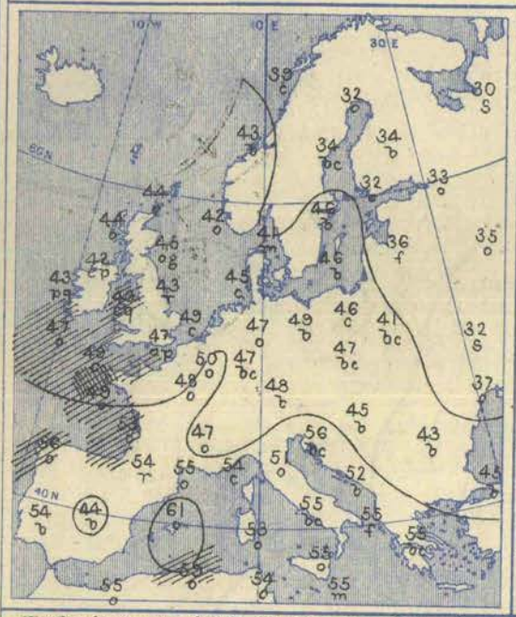
Thursday, 26th March.

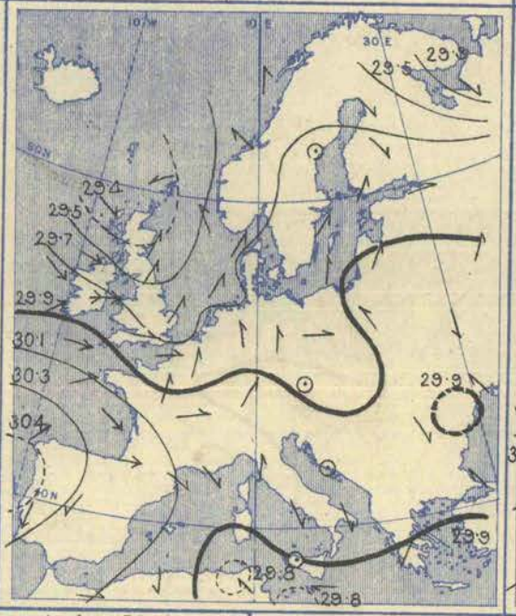
Temperature and Weather.

8 a.m.

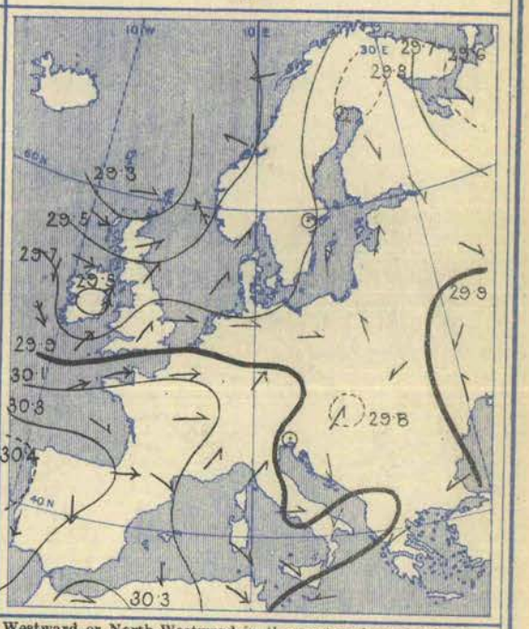


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in all the more northern and eastern parts of our Islands, with showers in many places; fair or fine on our south-west coasts. Fine over the greater part of the Continent, but foggy over the Baltic provinces and the Gulf of Finland; dull in the south of Norway, and also at most of the French stations, with rain at Belfort, Limoges, and Biarritz. Temporary improvement occurring in the east of our Islands during day, but rain setting in later over the whole of western Europe; sleet and hail falling at some of our northern stations. Thunderstorms occurring at Briançon and Gruenberg.

Temperature fallen in most of the western countries, but changed irregularly elsewhere. Morning readings highest, 61° at Barcelona, 59° at Algiers, and 56° at Corunna and Palermo; above 50° in most parts of southern Europe. Lowest, 22° at Kharkov, 30° at Archangel and Uleaborg, and 32° at Haparanda, Hangö, Helsingfors, and Kiev; below 40° over the whole of Russia and the north of Scandinavia. Rising during day to 50° and upwards over the eastern, central, and southern parts of Great Britain, and also in the south of Ireland; exceeding 65° in many parts of southern Europe, and reaching 72° at San Fernando.

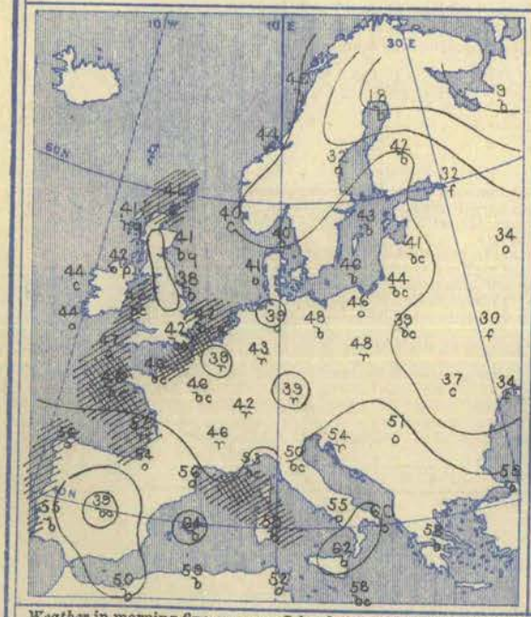
Wind fresh to strong from the Westward or North-Westward in the west and south of our Islands and the west of France, with a gale in the Irish Sea; light from the South-Westward on our east coasts, and from the same quarter or from South over the Netherlands, Germany, Denmark, and the Baltic; South-Easterly in the west of Norway. Westerly or North-Westerly over northern Russia; calm or variable over Austria and the south of Russia; chiefly Northerly over Italy and the Spanish Peninsula. Subsequently increasing to a gale from the Westward or South-Westward over all the more southern parts of our Islands, and from North-West in the north of Scotland.

Barometer highest, 30·4 ins. and upwards over central Portugal; 30·0 ins. and upwards over the whole of the Spanish Peninsula, the Bay of Biscay, and the greater part of France, as well as in another system over the south of Russia. Lowest, 29·3 ins. and less in a depression over northern Russia; 29·4 ins. and less in another system over the north of Scotland. Deep secondary disturbance advancing later over the St. George's Channel, and moving eastwards across England during night.

Friday, 27th March.

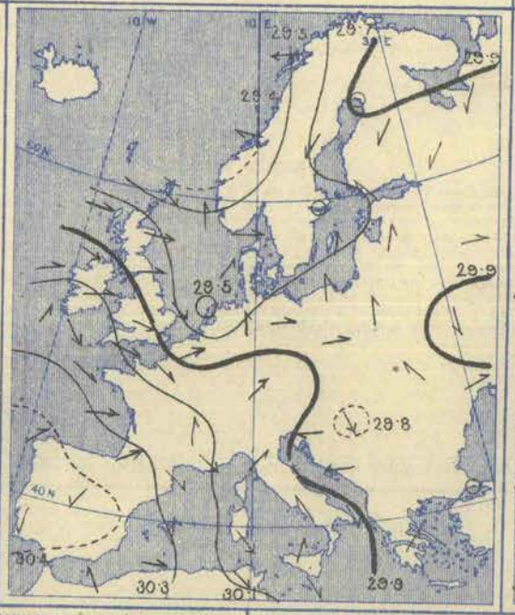
Temperature and Weather.

8 a.m.

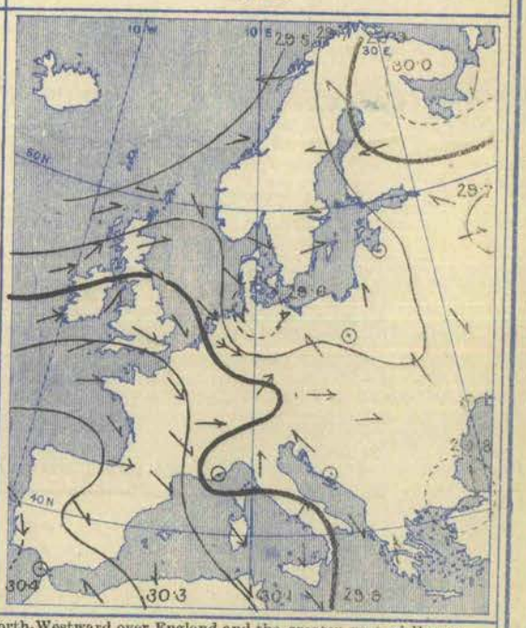


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over our Islands generally, but dull and showery on our extreme north-west coasts, with hail at Stornoway. Cloudy in most of the Continental countries, with fog at many of the Danish and Russian stations, and rain in several parts of Austria, Germany, and central France, as well as over the Gulf of Finland. Fine and bright over Spain, southern Italy, and the Mediterranean, and also in the extreme northern parts of Russia and Scandinavia. Rain falling later over western and central Europe generally. Solar and lunar halos seen in many parts of Great Britain and France; thunderstorm occurring at Scilly at night.

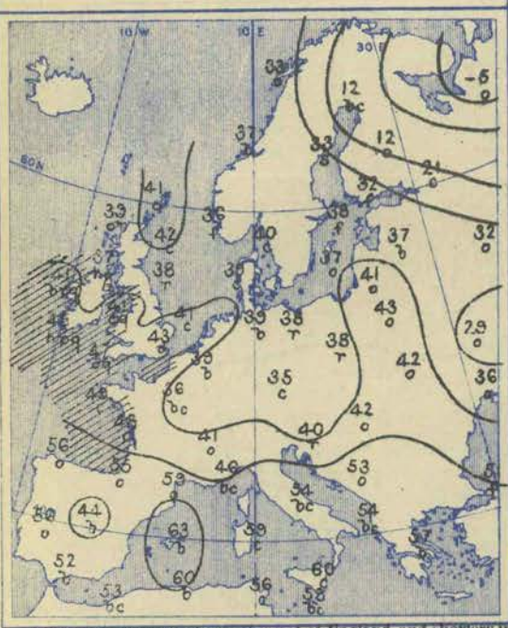
Temperature fallen in all but the eastern and south-eastern countries. Morning readings highest, 64° at Palma, 62° at Palermo, and 60° at Brindisi; above 55° at most of the Mediterranean stations, and also in the north of Spain. Lowest, 9° at Archangel, 18° at Haparanda, 30° at Kiev; below 40° in most parts of Russia and Scandinavia, as well as at some of our own northern and central stations. Rising during day to between 50° and 52° in many parts of Great Britain; exceeding 60° over southern Europe generally, and reaching 70° over the southern parts of Spain and Italy. Ground frost occurring over central England at night.

Wind fresh or strong from the North-Westward over England and the greater part of France, and from the South-Westward over the Netherlands and the east of France. Westerly over Ireland and Scotland generally, but South-Westerly at Valencia; Southerly in the south of Norway; Easterly over Finland and the northern parts of Scandinavia. Westerly over Germany and Austria; light, variable in Italy, Greece, and the south of Russia; North-Easterly or Easterly in Spain. Subsequently backing to the South-Westward in all the more western and northern parts of our Islands; veering to the North-Westward over the Netherlands and western Germany.

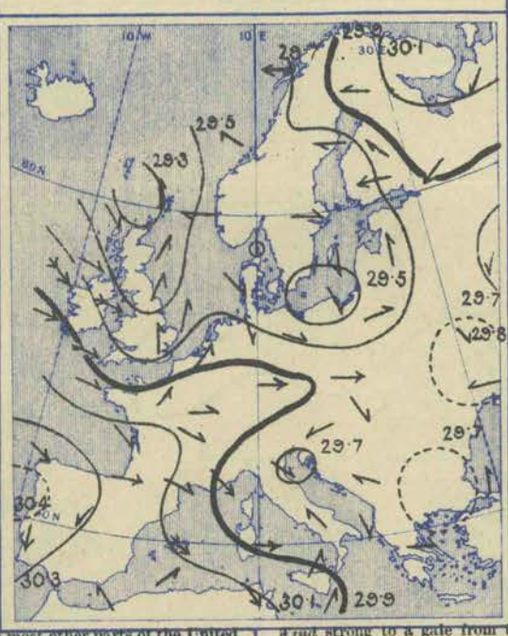
Barometer highest, 30·4 ins. and upwards in an anticyclone over the Spanish Peninsula; 29·9 ins. and upwards in two systems lying respectively over Lapland and over the south of Russia. Lowest, 29·4 ins. and less in a depression off the west of Norway; 29·5 ins. and less in a well-marked secondary disturbance off the Dutch coasts. Latter system subsequently moving eastwards to north Germany, but new disturbance beginning to approach our Islands from the westward.

Saturday, 28th March.

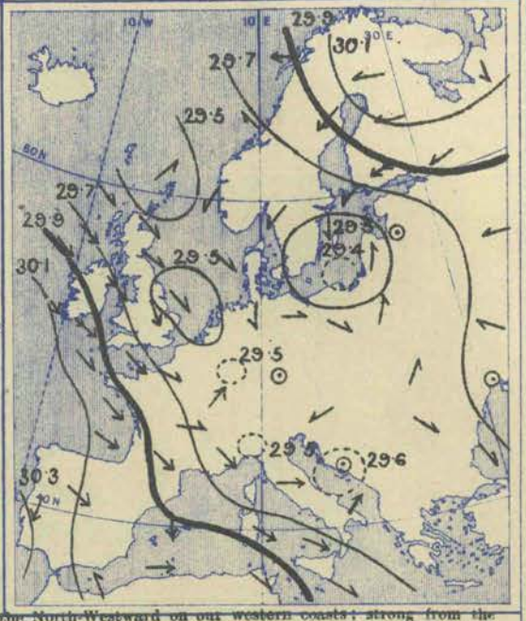
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the east of England, and showery in most other parts of the United Kingdom. Fair or fine over the western and southern parts of the Continent generally, but dull in most of the northern, eastern, and central countries, with fog in places, and rain at several of the German stations, as well as at Copenhagen and Trieste; snow falling at Hernösand and Helsingfors. Squalls of rain or hail experienced later over nearly the whole of western Europe, and snow in south Germany; heavy snow falling at Hernösand.

Temperature risen over southern Europe, and changed irregularly in the south of our Islands, but fallen elsewhere. Morning readings highest, 63° at Barcelona and Palma, 60° at Algiers and Palermo, and 59° at Cagliari; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, − 5° Fahr. at Archangel, + 12° at Uleaborg and Knopio, and 21° at St. Petersburg; below 40° over northern and eastern Europe generally, including the northern parts of our Islands. Daily maxima below 50° over nearly the whole of the United Kingdom, and below 45° at some of our northern and eastern stations; thermometer exceeding 60° over southern Europe generally, and exceeding 70° in some parts of Spain and southern Italy.

Wind light to strong to a gale from the North-Westward on our western coasts; strong from the Westward over the Channel and Bay of Biscay; light to moderate from the South-Westward over the Netherlands and the eastern and central parts of Great Britain. North-Westerly in Denmark; Westerly or South-Westerly at most of the German stations; Easterly over the northern parts of Russia and Scandinavia. Variable over Italy, Austria, and the south of Russia; Northerly or North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward over the eastern parts of our Islands; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying off the Portuguese coasts; 30·1 ins. and upwards in another system over the White Sea. Lowest, 29·3 ins. and less in a depression off the north of Scotland, with "V" shaped secondaries over Great Britain; 29·5 ins and less in another disturbance over Pomerania; 29·7 ins. and less in two other systems lying respectively over central Russia and over the northern parts of the Adriatic. Depression over Great Britain subsequently moving eastwards, and barometer rising over the whole Kingdom.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week a large anticyclone extended from Russia over nearly the whole of central and southern Europe, while depressions of moderate depth advanced from the south-westward to the Norwegian coasts, the latter system being accompanied by small secondary disturbances which passed north-eastwards across our Islands. In the north-western and northern countries as a whole the weather was therefore rather changeable, with thunderstorms in many parts of the United Kingdom; over England, however, the conditions were mostly fair, with very high temperatures on the 22nd and 24th.

Towards the middle of the period the anticyclone over central Europe gave way, while a new one advanced from the westward to the Spanish Peninsula, so that Westerly winds set in over the western countries generally. On the 26th a depression passed eastwards along our extreme northern coasts, while a deep secondary system travelled quickly across Ireland and England, the progress of the latter being marked by strong Westerly gales over the southern parts of the United Kingdom generally. Later on, a second high pressure area appeared over northern Europe, and the general distribution therefore became very complex, the most important change being on the 28th, when a well-marked "V" shaped depression travelled eastwards directly over our Islands. In the rear of this disturbance the wind blew very strongly from the North-Westward over nearly the whole of western Europe, with squalls of cold rain, hail, or sleet.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	27·7	+ 3·7	32	+ 4	SOUTHPORT	21·5	?	25	?
OSWALDKIRK (Yorkshire)	33·3	+ 4·8	38	+ 5	MANCHESTER (Oldham Road)	23·8*	?	27*	?
WORKSOP	32·6	+ 7·0	37	+ 7	COLWYN BAY	35·8*	?	41*	?
THURCASTON (Leicestershire)	29·9	+ 4·9	34	+ 5	TENBY				
MARGATE	44·3	+14·0	52	+ 17	NEWQUAY	31·4	− 3·6	37	− 3
WESTBOURNE (Sussex)	50·4*	+14·3	59*	+ 17	TORQUAY	44·5*	+ 8·2	52*	+ 10
BRIGHTON	48·3	+15·5	56	+ 17	ARLEY COTTAGE (County Cavan)	18·9	− 6·3	22	− 7
EASTBOURNE	50·1	+15·0	58	+ 18	GUERNSEY	47·3*	+ 9·3	55*	+ 10

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 14.] *Third Series.* WEEK ENDING SATURDAY, APRIL 4TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 80.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	26	48·8	36·6	42·4	1 above	25	+ 9	15	−14	188	+ 73	279	−248
	1. SCOTLAND, EAST	62	23	52·4	36·4	44·0	2 above	38	+16	16	−12	219	+ 64	381	−178
	2. ENGLAND, N.E.	59	29	49·2	35·7	42·1	0 (average)	27	+ 6	18	− 6	218	+ 62	309	−177
	3. ENGLAND, EAST	53	30	47·9	34·8	41·0	3 below	17	−11	27	+ 1	248	+ 52	348	−200
	4. MIDLAND COUNTIES	56	26	50·4	33·4	41·5	2 below	24	− 8	33	+ 6	289	+ 74	338	−209
	5. ENGLAND, SOUTH	57	30	50·1	36·3	42·8	2 below	30	+ 1	16	− 6	303	+ 75	229	−210
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	25	51·2	38 2	44·4	2 above	33	+11	11	−11	254	+ 87	217	−186
	7. ENGLAND, N.W.	53	36	48·7	37·9	43·1	1 below	25	+ 1	11	−10	273	+107	198	−211
	8. ENGLAND, S.W.	59	25	51·8	37·5	44·3	1 below	35	+ 5	13	− 2	359	+103	155	−176
	9. IRELAND, NORTH	58	32	51·4	40·7	46·8	2 above	32	+ 3	4	−15	341	+118	154	−196
	10. IRELAND, SOUTH	58	35	53·0	42·3	47·4	2 above	38	+ 6	0	−14	455	+142	87	−181
	—CHANNEL ISLANDS	56	38	51·6	43·3	47·3	0 (average)	37	+ 4	0	− 5	506	+174	39	−105

Rainfall.

	DISTRICTS. (See p. 80.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	5	2 less	74	+ 6	18·4	+ 2·8
	1. SCOTLAND, EAST	4	2	3 less	54	+ 2	5·1	− 2·9
	2. ENGLAND, N.E.	4	2	3 less	43	− 7	4·3	− 1·6
	3. ENGLAND, EAST	5	4	0 (average)	52	+ 3	5·4	− 0·4
	4. MIDLAND COUNTIES	2	1	4 less	47	0	4·6	− 2·1
	5. ENGLAND, SOUTH	3	1	4 less	45	0	4·5	− 2·3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	7 less	62	+ 5	12·3	− 2·1
	7. ENGLAND, N.W.	3	1	5 less	56	+ 4	8·3	− 0·1
	8. ENGLAND, S.W.	1	less than ½	6 less	51	− 1	7·1	− 3·4
	9. IRELAND, NORTH	5	2	4 less	62	+ 1	9·5	− 0·4
	10. IRELAND, SOUTH	4	1	5 less	55	0	8·9	− 1·9
	—CHANNEL ISLANDS	1	less than ½	5 less	54	− 4	4·9	− 4·2

Bright Sunshine.

	DISTRICTS. (See p. 80.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	20	− 6	22	− 7	154	− 36	17	− 3
	1. SCOTLAND, EAST	35	+ 6	39	+ 7	239	+ 1	26	+ 1
	2. ENGLAND, N.E.	23	− 3	29	− 3	208	− 28	22	− 3
	3. ENGLAND, EAST	22	−11	24	−13	226	− 43	23	− 5
	4. MIDLAND COUNTIES	24	− 6	25	− 7	212	− 54	22	− 3
	5. ENGLAND, SOUTH	27	− 8	29	−10	229	− 48	23	− 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	35	+ 4	40	+ 5	190	− 40	20	− 4
	7. ENGLAND, N.W.	31	+ 8	34	+10	165	− 36	20	− 4
	8. ENGLAND, S.W.	40	+ 2	44	+ 2	246	− 58	25	− 6
	9. IRELAND, NORTH	13	−15	15	−17	181	− 51	19	− 5
	10. IRELAND, SOUTH	14	−20	16	−22	204	− 76	21	− 8
	—CHANNEL ISLANDS	43	+ 9	48	+ 9	293	− 39	30	− 4

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied a good deal in different parts of the Kingdom; over Ireland and the greater part of England the sky was generally cloudy or overcast during the day-time, and frequently clear at night; on our south and south-west coasts, and in the north and west of Scotland, however, the days were mostly fine. Showers fell occasionally in nearly all places, but they were, as a rule, very slight.

Temperature was a little above the mean in Scotland and Ireland, and just equalled it in England N.E. and the Channel Islands, but in all other districts it was rather below its normal value. The highest of the maxima were recorded on the 4th, and ranged from 62° in Scotland E., to 53° in England E. and N.W. The absolute minima, which occurred on somewhat irregular dates, were generally low for the time of year, especially over England; the readings ranged from 23° in England E., 25° in Scotland W. and England S.W., and 26° in the Midland counties, to 35° in Ireland S., and 38° in the Channel Islands.

Rainfall just equalled the mean in England E., but was considerably less in all other districts.

Bright Sunshine varied greatly in different parts of the Kingdom, but was generally above the mean in the western parts of England, and the east and west of Scotland, and below it elsewhere. The percentage of the possible duration ranged from 48 in the Channel Islands, 44 in England S.W., and 40 in Scotland W., to 24 in England E., 22 in Scotland N., and between 15 and 16 in Ireland.

Barometer and Wind.—During the whole of this period pressure was highest in the south-west, and lowest in a series of rather shallow disturbances that moved eastwards or south-eastwards off our northern and north-eastern coasts. In addition to the main depressions several secondary systems affected the weather over our eastern and south-eastern districts. North-Westerly (Northerly to Westerly) winds were consequently prevalent in all parts of the Kingdom, and were generally light or moderate in force.

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II.—DATA from which the SUMMARY on page 79 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	30	46·7	36·0	41·1	+ 1·4	13	23	6	0·88	+0·33	*	*	*	*
	Stornoway	52	32	49·4	37·1	43·0	+ 2·2	28	14	5	0·37	-0·35	19·5	- 9·7	21	-12
	Wick	55	28	49·9	35·9	42·3	+ 1·6	30	17	7	0·53	+0·14	*	*	*	*
	Glencarron S	50	27	46·4	35·6	40·7	+ 0·2	12	23	7	1·09	-0·08	*	*	*	*
	Fort Augustus S	56	26	51·1	36·3	43·3	+ 1·0	33	16	3	0·08	-0·40	19·4	- 3·3	21	- 2
	Fort William S	55	30	49·4	38·8	43·9	+ 1·2	27	9	5	0·19	-0·71	20·8	- 4·8	23	- 7
1. SCOTLAND, E.	Nairn	58	28	52·0	35·4	43·3	+ 1·5	37	18	5	0·17	-0·11	*	*	*	*
	Aberdeen	58	33	51·6	37·7	44·3	+ 2·5	34	12	7	0·36	-0·14	38·4	+ 6·4	42	+ 6
	Braemar S	52	23	48·5	35·0	41·4	+ 0·7	18	27	5	0·10	-0·38	35·7†	+ 7·0†	39†	+ 7†
	Ochtertyre S	59	29	55·1	36·7	45·5	+ 3·3	47	15	1	0·01	-0·62	*	*	*	*
	Leith	62	30	55·9	36·9	45·9	+ 2·5	49	14	4	0·16	-0·22	*	*	*	*
	Marchmont S	59	30	51·3	36·7	43·7	+ 2·6	34	15	3	0·10	-0·46	34·3	+ 6·7	38	+ 7
2. ENGLAND, N.E.	Alnwick Castle	53	32	47·3	36·1	41·4	- 0·1	15	22	3	0·12	-0·42	*	*	*	*
	Durham	59	29	50·6	33·1	41·4	- 0·8	24	34	4	0·12	-0·36	26·4	- 1·5	29	- 2
	Shields	59	33	50·0	36·3	42·8	+ 0·5	20	16	4	0·12	-0·30	*	*	*	*
	Scarborough ℳ	59	31	49·9	36·1	42·7	- 0·3	30	17	2	0·30	-0·15	*	*	*	*
	York	57	30	50·9	34·7	42·4	- 0·3	33	20	4	0·08	-0·35	20·1	- 8·9	22	- 9
	Spurn Head	49	36	46·4	37·9	42·0	- 0·7	12	11	5	0·36	+0·03	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	50	32	47·6	35·7	41·4	- 3·0	16	24	4	0·65	+0·25	27·1	- 3·4	30	- 5
	Yarmouth	50	35	45·6	36·7	40·9	- 1·7	10	19	5	0·19	-0·25	*	*	*	*
	Geldeston	51	30	48·1	34·2	40·8	- 2·9	17	29	6	0·56	+0·16	21·0	-13·8	23	-16
	Cambridge	53	31	49·9	33·1	41·1	- 3·1	22	34	5	0·47	+0·10	21·7	-11·7	24	-13
	Rothamsted	51	32	48·5	34·1	41·0	- 2·5	18	30	5	0·25	-0·20	16·9	-15·1	19	-17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	26	50·3	33·3	41·4	- 2·5	23	33	2	0·04	-0·38	*	*	*	*
	Loughborough	54	23	51·0	30·9	40·5	- 3·5	25	42	2	0·08	-0·35	*	*	*	*
	Stamford (Ketton Hall)	55	30	51·7	33·1	42·0	- 2·3	27	25	5	0·17	-0·24	*	*	*	*
	Cheadle ℳ	49	30	47·8	34·0	42·6	- 2·0	16	30	3	0·14	-0·38	*	*	*	*
	Shirley (near Solihull)	51	29	48·7	33·4	40·7	- 2·7	19	32	3	0·06	?	*	*	*	*
	Churchstoke ℳ	52	27	49·4	33·4	41·0	- 1·6	21	32	3	0·10	-0·36	28·2	- 2·7	31	- 3
	Hereford ℳ	56	29	52·8	34·3	43·1	- 1·6	40	22	3	0·11	-0·32	*	*	*	*
	Cirencester	53	29	50·0	35·0	41·1	- 1·6	22	34	0	—	-0·50	28·6	- 2·8	32	- 3
	Oxford	54	31	51·7	35·1	43·0	- 1·7	36	19	1	0·01	-0·39	24·6	- 6·5	27	- 9
5. ENGLAND, S.	London	53	33	49·3	36·4	42·5	- 3·1	27	16	5	0·21	-0·19	14·7†	-11·0†	16†	-12†
	North Foreland	51	37	47·0	37·9	42·2	- 0·8	19	11	5	0·32	?	*	*	*	
	Strathfield Turgiss ℳ												*	*	*	
	Dungeness	52	30	48·6	34·7	41·3	- 2·7	18	28	4	0·18	-0·30	*	*	*	*
	Hastings (St. Leonards)	55	35	49·1	36·2	42·3	- 2·4	26	16	4	0·18	-0·32	31·2	- 5·8	35	- 6
	Southampton	57	32	53·2	36·8	44·6	- 0·9	40	15	0	—	-0·51	35·7	- 0·1	40	0
	Hurst Castle	55	31	52·6	36·7	44·3	- 1·0	38	15	1	0·01	-0·45	*	*	*	*
	Stowell ℳ	54	30	50·8	35·1	42·6	- 0·9	33	19	2	0·03	-0·53	*	*	*	*
6. SCOTLAND, W.	Laudale Loch Sunart)	54	34	50·4	29·3	44·6	+ 1·1	30	8	5	0·31	-1·11	*	*	*	*
	Glasgow	55	32	51·1	38·2	44·2	+ 1·6	32	11	0	—	-0·55	35·9	+10·4	40	+13
	Ardrossan	54	32	50·9	38·7	44·5	+ 1·3	31	9	2	0·02	-0·56	*	*	*	*
	Glenlee S	58	25	52·5	35·6	43·6	+ 2·0	38	18	0	—	-0·83	*	*	*	*
	Douglas (Isle of Man)	53	32	51·1	39·1	44·8	+ 1·6	32	8	0	0·01	-0·66	34·9	- 1·7	39	- 3
7. ENGLAND, N.W.	Stonyhurst	52	31	48·7	35·2	41·6	- 1·5	19	26	4	0·12	-0·61	36·2	+ 7·2	40	+ 8
	Blackpool ℳ	52	30	49·5	37·4	43·2	- 0·3	28	13	3	0·10	-0·43	38·3	+10·3	43	+12
	Manchester (Prestwich)	53	30	48·5	33·8	40·8	- 2·9	18	31	2	0·07	-0·47	25·5	?	28	?
	Liverpool Obsy. (Bidston)	50	35	48·0	39·6	43·6	- 0·4	21	7	2	0·15	-0·28	*	*	*	*
	Llandudno ℳ	52	37	48·8	40·9	44·7	- 0·8	24	3	3	0·10	-0·40	*	*	*	*
	Holyhead	51	37	48·9	40·7	44·6	- 1·0	24	4	2	0·02	-0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	25	54·3	32·3	42·8	- 1·1	46	27	2	0·05	-0·67	*	*	*	*
	Pembroke	52	39	49·7	41·0	45·1	+ 0·2	26	3	1	0·05	-0·47	25·4	-12·0	28	-14
	Bristol (Montpelier)												*	*	*	*
	Arlington (N. Devon)	53	30	50·0	34·3	41·8	- 0·3	22	30	0	—	-0·77	*	*	*	*
	Cullompton ℳ	59	29	53·6	36·1	44·4	- 1·3	42	17	2	0·02	-0·46	?43·0	?+ 9·6	?48	?+12
	Falmouth	53	38	50·7	41·2	45·7	- 0·6	29	2	1	0·07	-0·57	50·8	+12·5	56	+13
	Plymouth	54	37	51·7	39·6	45·4	- 1·4	34	7	0	—	-0·57	43·4	+ 6·8	48	+ 7
	Prawle Point	59	35	52·9	38·0	45·1	- 0·2	39	11	0	—	-0·47	*	*	*	*
9. IRELAND, N.	Malin Head	50	36	48·1	42·3	45·1	+ 1·3	22	0	6	0·18	?	*	*	*	*
	Londonderry	55	37	52·4	41·9	46·9	+ 2·2	35	0	7	0·24	-0·39	*	*	*	*
	Edenfel (Omagh)	54	34	50·4	39·4	44·6	+ 1·7	29	7	4	0·19	-0·39	*	*	*	*
	Belmullet	54	35	51·7	43·7	47·5	+ 2·2	39	0	4	0·20	-0·56	*	*	*	*
	Markree Castle	54	39	51·9	43·2	47·3	+ 2·8	37	0	7	0·23	-0·34	23·5	- 5·5	26	- 7
	Brookeborough												*	*	*	*
	Armagh	58	33	52·2	38·5	45·0	+ 1·6	36	10	2	0·02	-0·44	6·6	-21·4	7	-24
	Donaghadee	55	32	52·1	38·0	44·7	+ 0·1	36	11	3	0·05	-0·45	*	*	*	*
	Edgeworthstown	57	33	52·0	38·7	45·0	+ 2·5	35	9	4	0·17	-0·46	*	*	*	*
10. IRELAND, S.	Dublin	57	35	53·0	41·0	46·7	+ 1·0	37	3	4	0·05	-0·43	12·6	-21·2	14	-24
	Parsonstown	56	37	53·0	40·7	46·6	+ 2·1	38	4	4	0·11	-0·41	12·5	-19·0	14	-22
	Kilkenny	56	35	51·7	40·0	45·6	+ 0·9	34	6	3	0·03	-0·44	*	*	*	*
	Roche's Point	58	40	54·4	43·0	48·4	+ 1·8	45	0	1	0·10	-0·62	*	*	*	*
	Valencia	54	39	52·9	44·7	48·6	+ 0·9	46	0	7	0·15	-0·80	17·3	-18·7	19	-21
	Killarney	55	41	53·1	44·4	48·5	+ 2·8	45	0	5	0·34	?	*	*	*	*
	Foynes	?	41	?	45·3	?	?	?	?	2	0·06	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	43	51·3	44·3	47·6	0·0	39	0	1	0·05	-0·49	28·1	?	31	?
	Jersey	53	38	51·9	42·4	46·9	- 0·7	34	0	1	0·02	-0·54	51·4	+ 9·8	57	+10

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

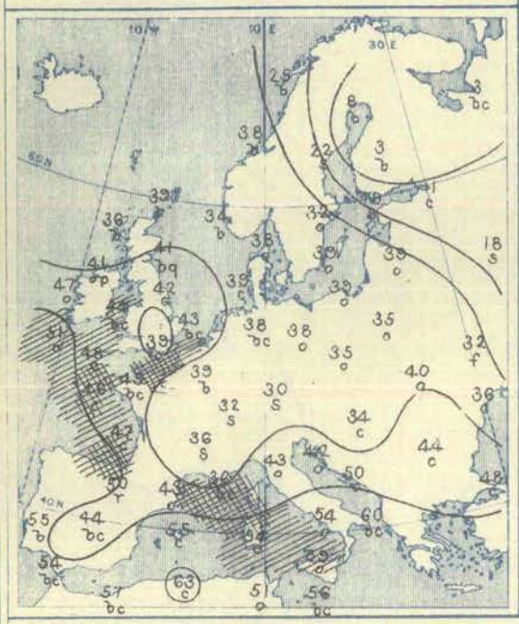
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 29th March.

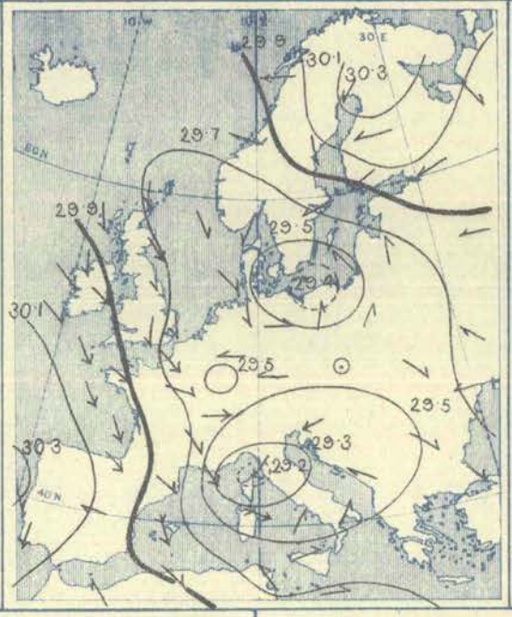
Temperature and Weather.

8 a.m.

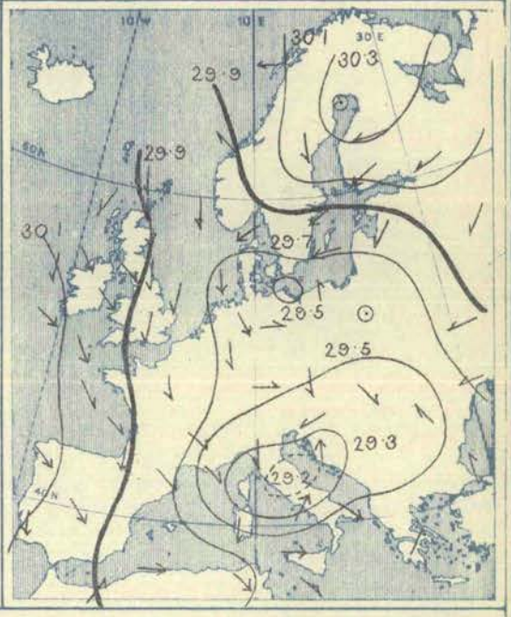


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Finland, Lapland and Norway, Great Britain, the north of France, and the greater part of Spain; fair over central Europe and the south of Russia; dull and rainy over the Baltic and north Germany, with snow in Sweden; very unsettled over the northern parts of the Mediterranean and south of France, with snow at Lyons, Belfort, and Munich; rain at Biarritz and Bilbao. Slight rain at most of the stations later; considerable falls at Faerder, Wisby, and Cape Gris Nez, and more than an inch at Biarritz; snow at some of the German and Russian stations. Lightning seen at Jersey.

Temperature inclined to fall over the British Islands. Morning readings highest, 63° at Algiers, 60° at Oran and Brindisi, 59° at Malta, and above 50° on all the coasts of Spain and Portugal, 51° at Valencia (Ireland), 48° at Scilly, 46° at Brest. Lowest, 3° Fahr. at Archangel and Kuopio, 8° at Haparanda, 11° at St. Petersburg, 18° at Moscow, 31° to 38° over central Europe, 37° at Nairn, and below 40° over the inland parts of Great Britain and France. Barely exceeding 50° in any part of our Islands later; touching 57° at Nice, 63° at Lisbon, 68° at Malta, and 70° to 77° over Algeria.

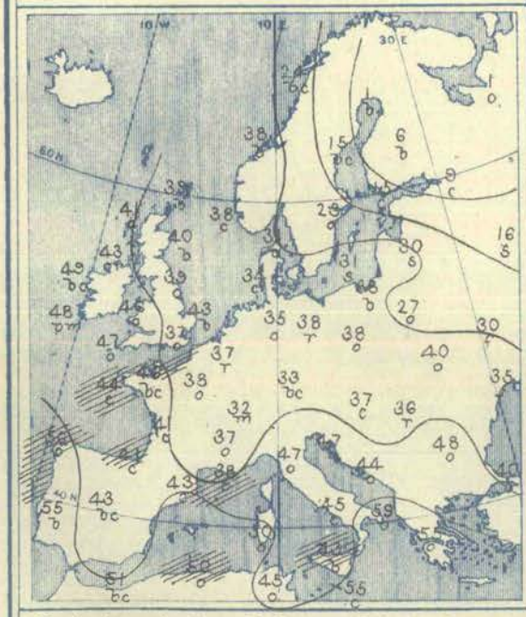
Wind (1) Easterly to North-Easterly over northern Europe, and blowing a gale at Helsingfors and Hangö; North-Westerly to Northerly strong to moderate over our Islands; North-Westerly over France and the Bay of Biscay. Two well-formed cyclonic circulations prevalent—one round a centre off the coast of north Germany, the other (mainly gales) round a rather deep system having its centre over the north-eastern parts of the Mediterranean. Hardly any change later.

Barometer highest, 30·3 ins. to 30·0 ins. (1) over the Iberian Peninsula, the Bay of Biscay, and the south-west of Ireland; (2) over Lapland, Finland, and the north of Russia. Lowest, below 29·2 ins. in the depression over the north-eastern parts of the Mediterranean and north of Italy, and below 29·4 ins. in another over the southern side of the Baltic and north Germany. The northern system tending to fill up later, the southern moving eastwards towards the Adriatic.

Monday, 30th March.

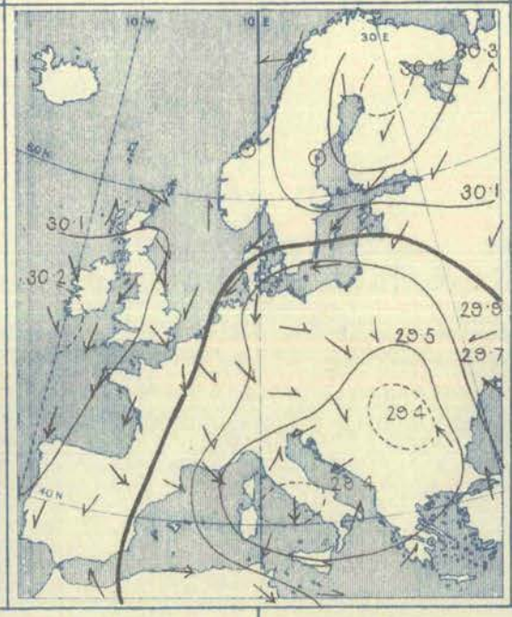
Temperature and Weather.

8 a.m.

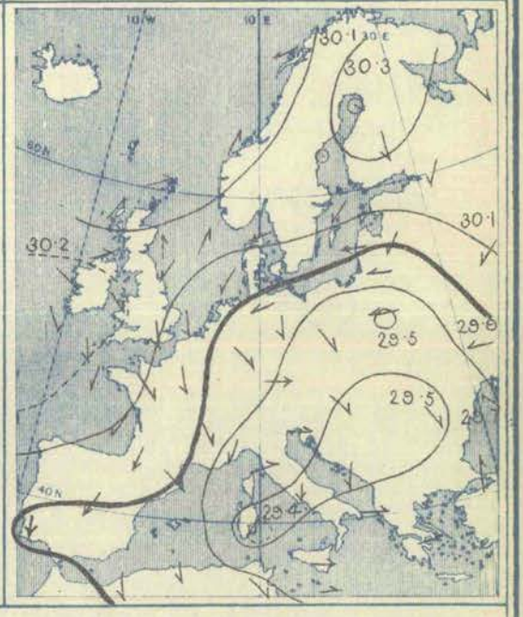


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Finland, and the northern parts of Scandinavia, as well as over the southern half of Spain, and several parts of the British Islands; cloudy and very unsettled over southern and central Europe, with snow and cold rain in the latter regions; fog in the south of Russia. Very slight showers falling later in many parts of the British Islands and France, a considerable fall of snow at Bodö, and large quantities of rain in some parts of Germany, Austria, and Italy.

Temperature rather low for the time of year over western Europe, very low over the north of Russia. Morning readings highest, 59° at Athens, 56° at Brindisi and Corunna, and exceeding 50° at many of the Mediterranean and Portugese stations; 49° at Bodö, 46° at Jersey. Lowest, (1) 1° Fahr. at Archangel and Haparanda, 9° at St. Petersburg, 15° at Hernösand and much below the freezing point over Russia generally; (2) 37° to 38° over the central counties of England; (3) 32° at Belfort, 33° at Munich. Rising later to a little above 50° in some parts of the British Islands and the north and west of France, and touching 59° at Nice, 61° at Malta, 68° at Lisbon, 72° at Oran.

Wind light and anticyclonic over Scotland, Ireland, and northern Europe; (2) North-Easterly to Northerly and cyclonic over the Baltic, the southern parts of the North Sea and England, and the Atlantic coasts of western Europe, North-Westerly to Northerly, and strong over the Mediterranean. Southerly to Easterly over south-eastern Europe, Easterly and light over central Russia. Very little change in our Islands later.

Barometer highest, (1) 30·4 ins. to 30·1 ins. in an anticyclone lying over Finland and the northern part of Scandinavia; (2) 30·2 ins. and more to 30·1 ins. in another spreading in from the Atlantic over the British Islands and north-west of Spain, and exceeding 30·0 ins. in a "col" uniting the two systems. Lowest, (1) 29·4 ins. and less to 29·5 ins. in a very complex depression covering Italy and south-eastern Europe; (2) apparently below 30·0 ins. over the Faroe Isles and off the west of Norway. Falling slightly in the north of Scotland later and in the Azores; rising elsewhere.

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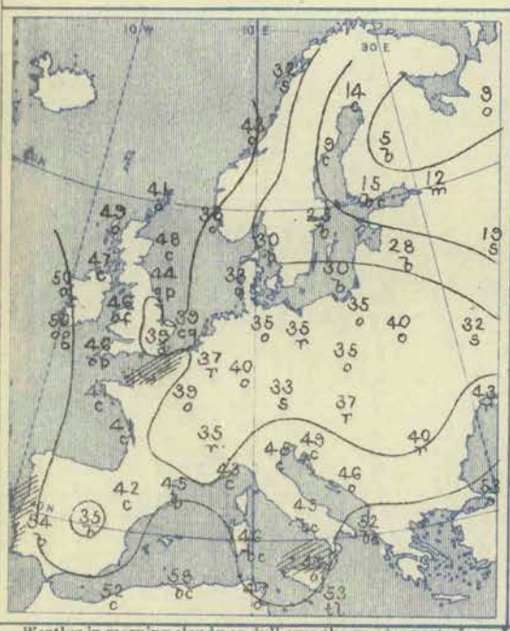
Tuesday, 31st March.

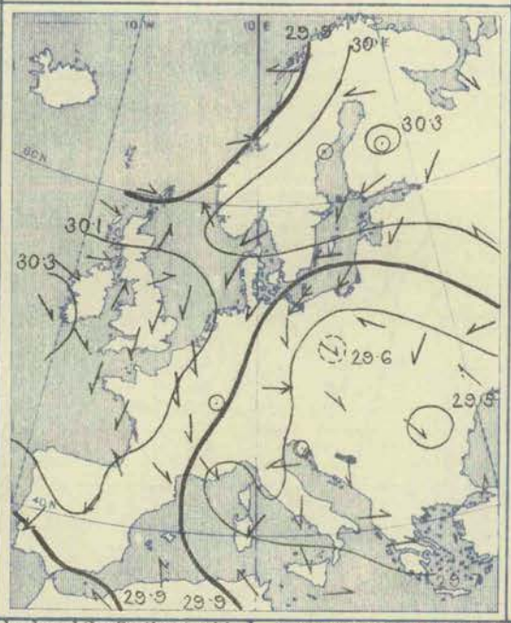
Temperature and Weather. 8 a.m.

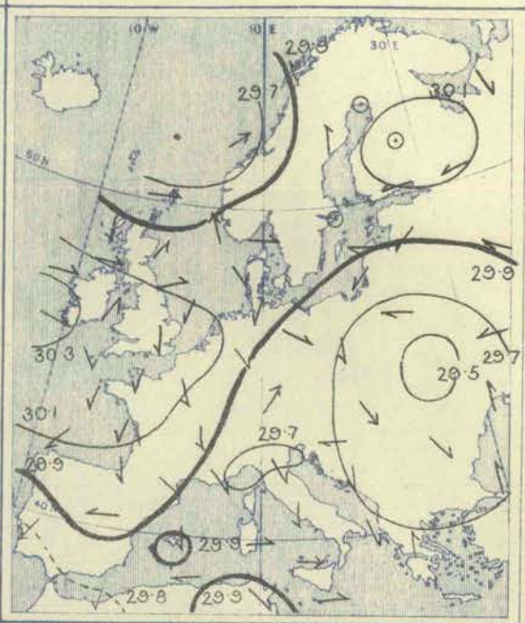


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with passing showers in the east and south-east of England, and with rain or snow over the central and eastern parts of Europe generally. Fine in Finland and the south of Sweden, as well as in many parts of Spain and southern Italy. Rain falling later in all but the south-western and extreme southern parts of our Islands, but amounts mostly slight; larger falls in some parts of Austria and Germany. Thunder heard at Nairn.

Temperature risen over our Islands and the northern parts of Scandinavia and Russia, fallen elsewhere. Morning reading highest, 59° at San Fernando, and 58° at Algiers, above 50° at many of the Mediterranean and Spanish coast stations, and just touching that point in the west and south of Ireland. Lowest, 5° at Kuopio, 9° at Archangel, and 12° at Uleaborg, Helsingfors, and St. Petersburg; below the freezing point over Sweden and Russia generally, as well as in central England, and very little above it in Germany and the east of France. Rising during day to 50° and upwards in many parts of the United Kingdom, and to between 55° and 58° in the north and east of Scotland, to 66° at Cagliari, and 68° at Sfax.

Barometer and Wind. 8 a.m. and 6 p.m.



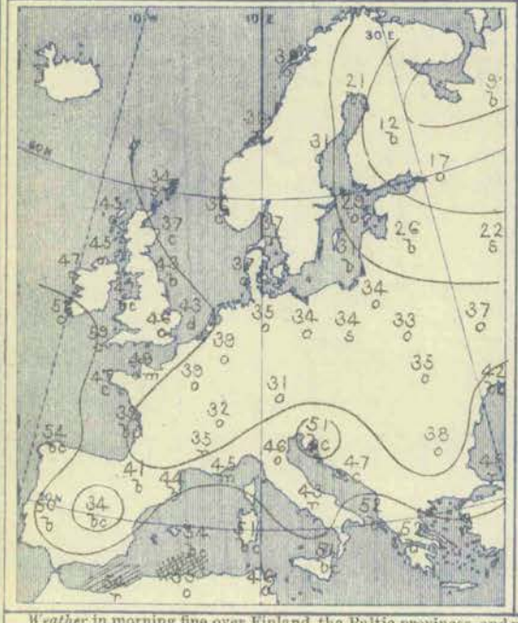


Wind light from the Westward and South-Westward over the northern parts of our Islands, but from the Northward in the southern districts, as well as in France and the Netherlands, and from the North-Eastward or Eastward over Spain and northern Italy, Easterly or North-Easterly over Finland, Sweden, Denmark, and the Baltic, with a gale at Swinemünde; Northerly in Germany, Westerly or North-Westerly in Austria; South-Easterly over the central and southern parts of Russia. No important change occurring over western Europe during day, but wind shifting to the Northward in the Hebrides.

Barometer highest, 30·2 ins. and upwards in an anticyclone stretching from the Atlantic over Ireland, England, and the north-west of France, and also in another system lying over Finland and central Sweden. Lowest, 29·5 ins. and less in a depression over eastern Austria; 29·6 ins. and less in a small system near Breslau, 29·9 ins. and less in two large shallow areas, one lying to the west of Norway, and the other over Morocco and the extreme southern parts of the Spanish peninsula. Depression off Norwegian coasts subsequently moving eastwards, and barometer falling over north-western Europe generally.

Wednesday, 1st April.

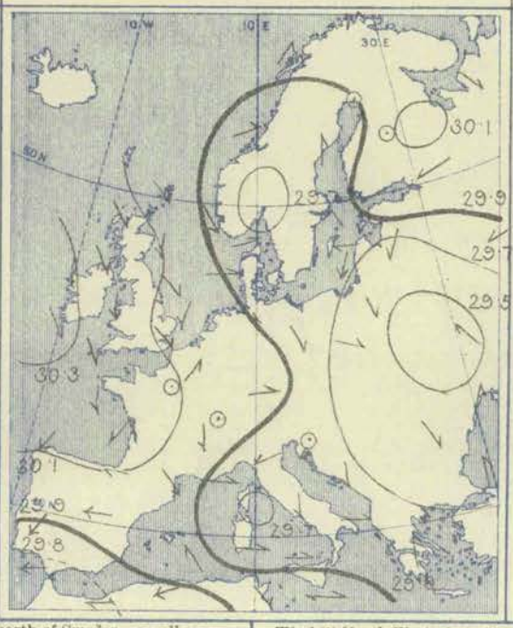
Temperature and Weather. 8 a.m.

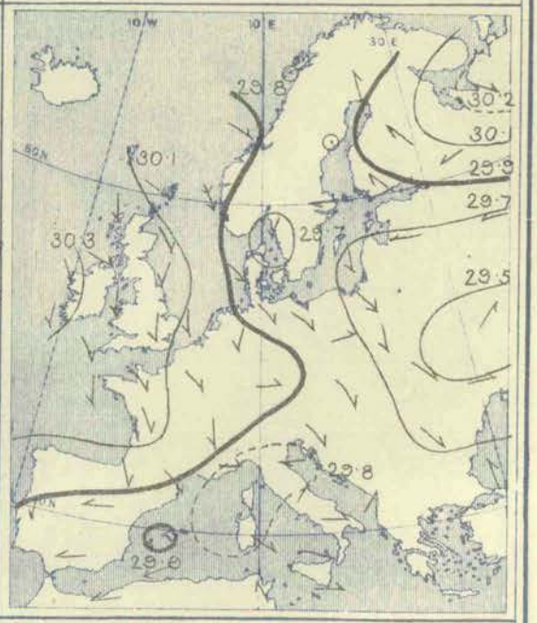


Weather in morning fine over Finland, the Baltic provinces, and north of Sweden, as well as over Greece and nearly the whole of the Iberian Peninsula and the west of France; cloudy or overcast and very unsettled elsewhere, with snow over certain parts of Russia, Sweden, Scotland, and central Europe; rain at Christiansund, and at some of the Mediterranean stations. Slight falls of cold rain or snow later over many parts of the Continent, and locally in some parts of the British Islands; a considerable fall of snow at Karlstad, and of rain at Leghorn, as well as over several parts of Tunis and Algeria.

Temperature risen decidedly over northern Europe and over England, fallen over Scotland and the north of Ireland. Morning readings highest, 55° at Algiers, and ranging between 54° and 50° at many of the Mediterranean and Spanish stations, 51° to 50° on our extreme south-western coasts. Lowest, (1) 9° at Archangel; below 20° over Finland as a whole, 22° at Moscow, and below the freezing point over all but the southern parts of Russia; (2) 34° at Sumburgh Head, 37° at Aberdeen and Fanö, and 35° to 32° over many of the inland parts of France. Frost occurring on the grass over our inland counties at night.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind (1) North-Westerly to Northerly over the British Islands and western Europe, and fresh to light in force; North-Easterly to South-Easterly and light over Russia. Three cyclonic circulations, of little force, prevalent—one over Scandinavia, a second over western Russia, and a third over Corsica and Sardinia. Becoming light and more Northerly over our Islands at night.

Barometer highest, (1) 30·3 ins. and more over the west of Ireland and neighbouring parts of the Atlantic, and exceeding 30·0 ins. all over the British Islands and France; (2) 30·1 ins. to 30·0 ins. over Finland and the north of Russia. Lowest, below 29·5 ins. in a depression over western Russia, and below 29·7 ins. in two others—one over the Mediterranean, the other over the south of Scandinavia. Rising over our Islands later, falling over the south of Sweden, as the Scandinavian depression moved south-eastwards.

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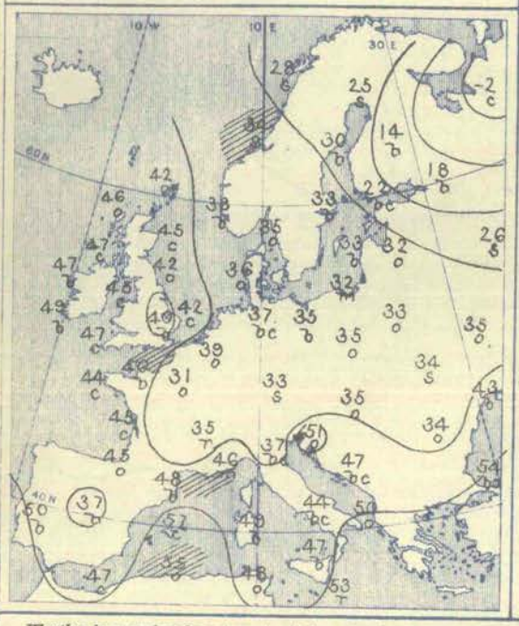
Thursday, 2nd April.

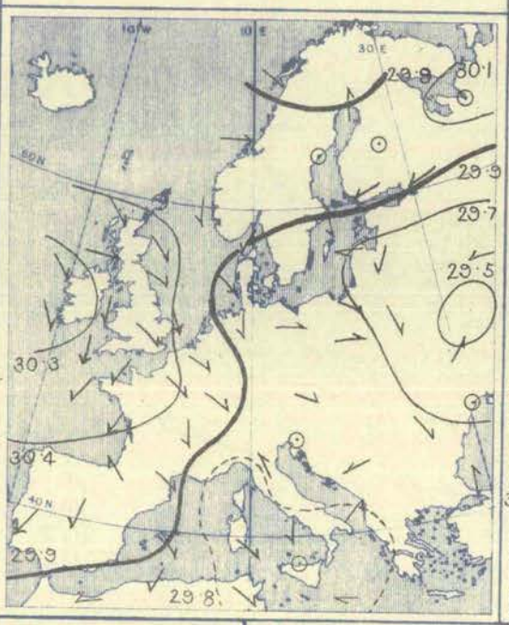
Temperature and Weather.

8 a.m.

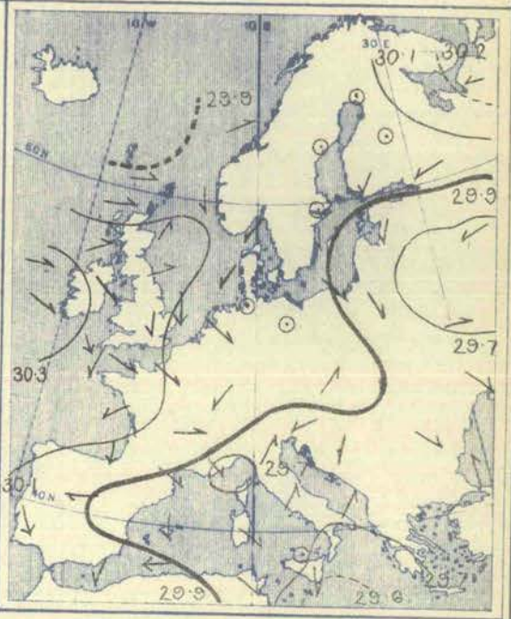


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at most stations in the British Islands, Brittany, Spain, and on the shores of the Mediterranean; dull and unsettled elsewhere, with snow over several parts of Russia and central Europe; rain at Turin and Belfort. Some rain falling later over the northern and western parts of our Islands generally, as well as in several parts of eastern France and western Germany.

Temperature changing rather fitfully over the United Kingdom, fallen fast in the extreme north of Russia. Morning readings highest, 58° at Barcelona, 55° at Algiers, 54° at Constantinople, 51° at Trieste, 50° at Brindisi and Lisbon, 49° to 44° at our own western coast stations, 42° at Sumburgh Head. Lowest, (1) – 2° Fahr. at Archangel, and between that value and + 26° over all the northern parts of Russia and the east of Lapland; (2) 33° to 35° over central Europe as a whole; (3) 36° at Loughborough, 37° at York. Rising later to between 50° and 55° in many parts of our Islands, to 61° at Nice, and 64° at Lisbon; not exceeding 36° at Munich.

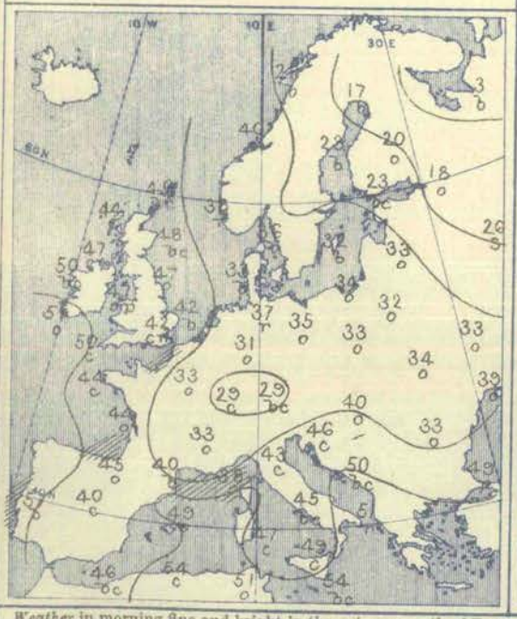
Wind light and anticyclonic over the British Islands; North-Westerly in the north; Northerly to North-Easterly in the south, and North-Easterly over the Bay of Biscay and France; light and anticyclonic over northern Europe; light and cyclonic, in two systems, over Russia and the Mediterranean. A new cyclonic circulation of light winds spreading over our own northern districts later.

Barometer highest, (1) 30·3 ins. and more over Ireland and the adjacent parts of the Atlantic, and exceeding 30·0 ins. over the whole of the United Kingdom, France, and the west of Norway; (2) 30·1 ins. and more to 30·0 ins. over the north of Russia. Lowest, below 29·5 ins. in a shallow depression over central Russia, and below 29·8 ins. in another over the Mediterranean. A new disturbance approaching our northern coasts later from the north-westward; barometer falling at the Scotch stations, but rising over Scandinavia.

Friday, 3rd April.

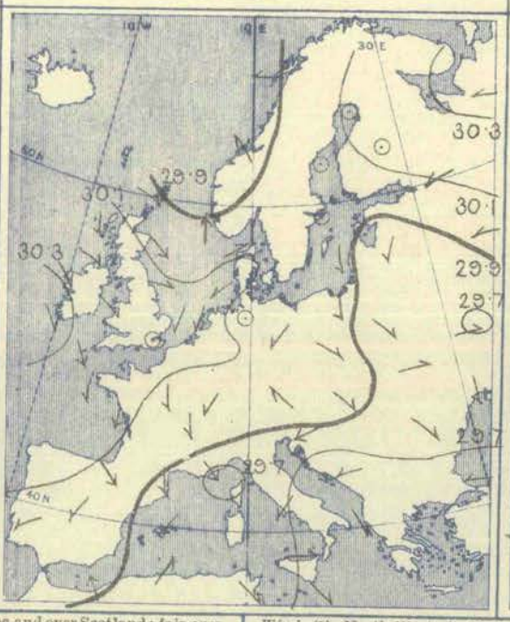
Temperature and Weather.

8 a.m.

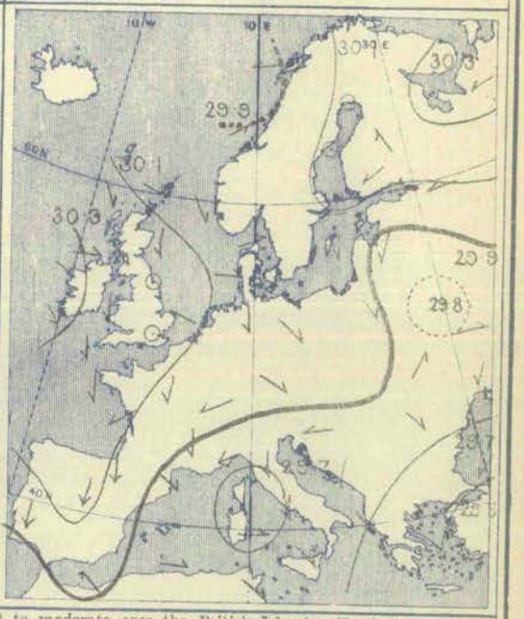


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the extreme north of Europe and over Scotland; fair over the south-western and southern parts of our Islands, but hazy in places; fair over France and central Europe, but rather rainy at some of the Mediterranean and Adriatic stations; snow falling at Moscow. Rain setting in later over Scotland and the north of Ireland, and some local showers falling in various parts of France, but weather clearing up over England.

Temperature changing but little. Morning readings highest, 57° at Lisbon, but not much above 50° at any of the Mediterranean stations, 51° to 50° on our extreme west and south-west coasts, and 50° to 48° in the east of Scotland. Rising later to 60° at Leith, and 54° at several of our northern stations, to 58° at Roche's Point, 56° at Parsonstown, and 55° in the south of France, but not touching 50° in the east of England, nor at Paris.

Wind (1) North-Westerly light to moderate over the British Islands; North-Easterly to Northerly over the north of France and the Bay of Biscay; Easterly on the Portuguese coast; (2) Easterly over central and northern Russia and Lapland; (3) cyclonic circulation of moderate winds prevalent (*a*) over Norway and the north of Scotland; (*b*) over western and southern Russia, and (*c*) over the south of France, the north of Italy, and neighbouring parts of the Mediterranean. Very faint and variable over the southern part of England all day; not much change elsewhere.

Barometer highest, (1) 30·3 ins. and more over Ireland and the neighbouring parts of the Atlantic, and exceeding 30·1 ins. in an irregularly formed "ridge" stretching thence to the Netherlands and the west coast of Denmark; (2) 30·3 ins. and more to 30·1 ins. over the north of Russia and Finland, and exceeding 30·0 ins. in a "col" over Sweden and Denmark generally. Lowest, below 29·8 ins. in a shallow depression off the west of Norway, in another over the southern half of Russia, and apparently below 29·6 ins. over Greece, and in a secondary depression over the northern part of the Mediterranean.

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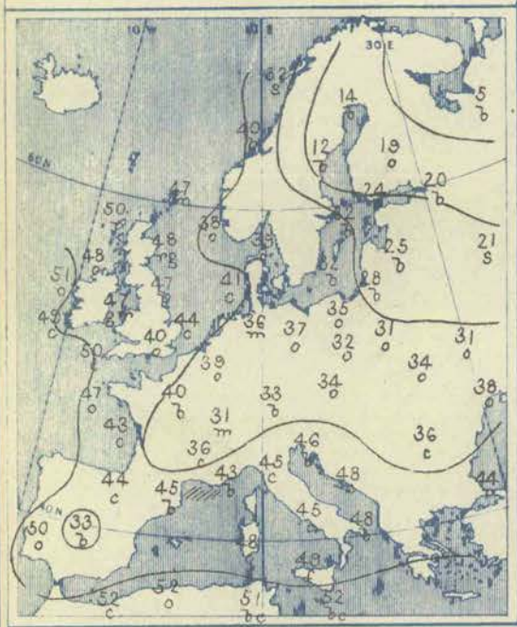
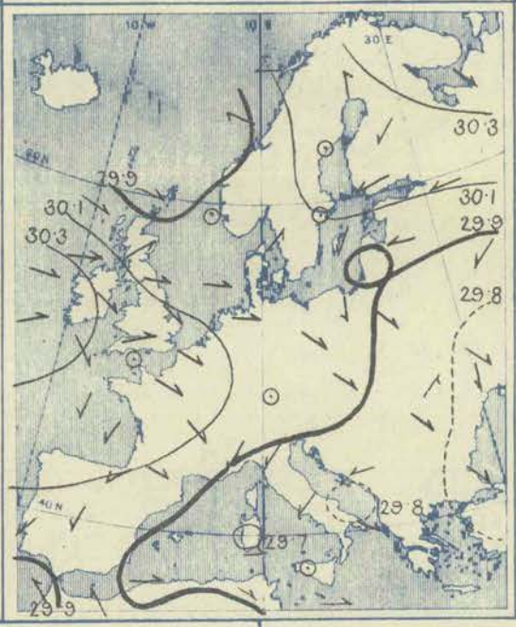
Saturday, 4th April.

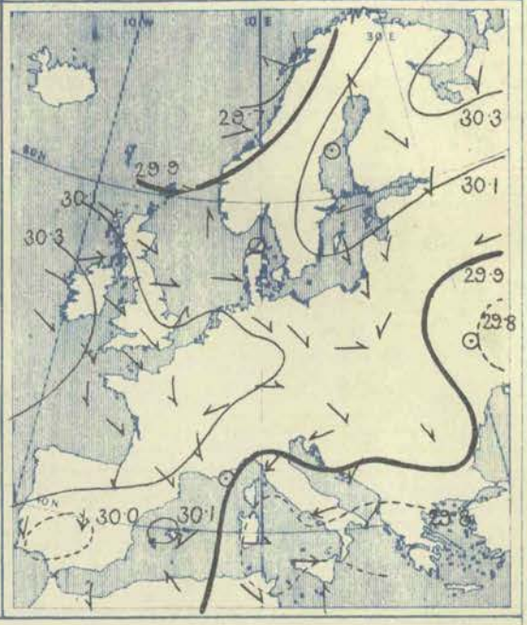
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western and southern Europe, as well as over the north-east of France and south Wales; fine also over Finland and the north of Russia. Dull and unsettled elsewhere, with rain over several of the northern parts of our Islands; snow at Karlstad and Bodö. Some rain later both over the northern and southern counties of our Islands, and at a few stations in France, Germany, and Scandinavia; snow at Munich.

Temperature risen a little over our Islands and considerably over France. Morning readings highest, 58° at Tunis, 57° at San Fernando, 51° to 50° at many of our south-western and western stations and in the north of Scotland. Lowest, 5° to 20° over the northern parts of Russia and Sweden, and the greater part of Finland, 21° at Moscow, 25° at Riga, 28° at Memel, 31° at Belfort, 33° at Munich, 36° at Lyons. Rising later to 62° at Leith, 56° to 59° on our north-east coasts generally, and less high over France, but touching 61° at Lisbon.

Wind (1) Westerly to North-Westerly moderate to strong over Scotland, and South-Easterly to Easterly over the northern half of Norway; (2) North-Westerly over England and the southern half of Ireland; North-Easterly over the Channel, the north of France, the Bay of Biscay, and off the coast of Portugal. Very light and variable over central Europe. Shifting Northwards over Scotland later, and blowing strongly over Caithness.

Barometer highest, 30·3 ins. and more to 30·1 ins. (1) over the Atlantic (off our western coasts), and in a ridge stretching eastwards over the whole of Ireland, England, and the north-eastern half of France; (2) over northern Europe. Lowest, (1) about 29·8 ins. in a depression lying rather to the northward of the Shetlands and to the westward of Norway; (2) about 29·7 ins. in another shallow depression having its centre over Sardinia; (3) below 29·8 ins. over the south of Russia, and below 29·9 ins. in a secondary over eastern Prussia. No decided change later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of this week barometrical pressure was high in two widely separated regions: (1) over the Atlantic and western coasts of our Islands; (2) over northern Europe, while it was lowest over the Mediterranean, south-eastern, and central Europe. This condition underwent but little alteration throughout the week, except that the western high pressure system took up a position somewhat to the northward of that it had previously occupied, while over south-eastern and southern Europe the depressions which appeared decreased in intensity. The general conditions were therefore favourable for North-Westerly to Northerly winds over our Islands and western Europe, and for Easterly and North-Easterly winds over the more northern countries. In the mean time shallow depressions appeared to the northward of our Islands and the westward of Norway; some of them developing secondaries over the North Sea, while some moved south-eastwards across the southern parts of Scandinavia to the Baltic and central Europe. In this way it came about that showers of rain and hail (or snow), separated by bright intervals, were experienced over the northern, eastern, and south-eastern parts of the United Kingdom and many parts of Europe—the bright intervals occurring during the daytime over the east of Scotland, but in the night-time over England. The consequence was that while the hours of bright sunshine recorded in the former district were large, those in the south-east were relatively small.

At the end of the week the general distribution of pressure seemed to be changing slowly, and milder weather appeared likely to spread over the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	32·4	+ 6·8	36	+ 8	SOUTHPORT	30·7	?	33	?
OSWALDKIRK (Yorkshire)	32·2	+ 2·2	36	+ 3	MANCHESTER (Oldham Road)	17·3*	?	19*	?
WORKSOP	14·7	- 12·4	16	- 15	COLWYN BAY	35·6*	?	46*	?
THURCASTON (Leicestershire)	21·5	- 5·5	24	- 5	TENBY	29·6	- 11·0	33	- 13
MARGATE	24·8	- 7·4	28	- 8	NEWQUAY	43·2	+ 5·7	48	+ 7
WESTBOURNE (Sussex)	31·4*	- 7·1	34*	- 10	TORQUAY	41·4*	+ 2·4	46*	+ 3
BRIGHTON	23·5	- 11·8	26	- 14	ARLEY COTTAGE (County Cavan)	9·7	- 17·8	11	- 20
EASTBOURNE	24·3	- 12·9	27	- 14	GUERNSEY	49·2*	+ 8·4	55*	+ 9

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 15.] *Third Series.* WEEK ENDING SATURDAY, APRIL 11TH, 1896. [*Price 6d.* *Annual Subscription, post paid,* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 86.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	31	50·3	41·9	46·0	4 above	28	+ 8	0	− 24	216	+ 81	279	− 272
	1. SCOTLAND, EAST	64	32	55·6	42·7	48·8	6 above	48	+21	0	− 26	267	+ 85	381	− 204
	2. ENGLAND, N.E.	66	38	57·0	44·2	50·3	7 above	58	+33	0	− 20	276	+ 95	309	− 197
	3. ENGLAND, EAST	66	36	56·6	43·0	49·5	5 above	53	+20	0	− 21	301	+ 72	348	− 221
	4. MIDLAND COUNTIES	64	34	57·4	42·4	49·6	5 above	53	+16	0	− 22	342	+ 90	338	− 231
	5. ENGLAND, SOUTH	65	39	57·2	44·6	50·6	5 above	60	+24	0	− 17	363	+ 99	229	− 227
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	35	52·7	44·2	48·3	4 above	44	+16	0	− 18	298	+103	217	− 204
	7. ENGLAND, N.W.	58	38	53·4	44·6	48·8	4 above	48	+19	0	− 16	321	+126	198	− 227
	8. ENGLAND, S.W.	64	36	55·8	44·0	49·6	4 above	53	+18	0	− 11	412	+121	155	− 187
	9. IRELAND, NORTH	62	33	54·5	44·0	49·0	4 above	49	+16	0	− 15	390	+134	154	− 211
	10. IRELAND, SOUTH	62	38	55·2	45·1	49·9	3 above	55	+18	0	− 11	510	+160	87	− 192
	—CHANNEL ISLANDS	58	44	55·3	47·0	51·0	3 above	63	+23	0	− 3	569	+197	39	− 108

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 86.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	16	10 more	81	+ 9	20·0	+ 3·8	12	− 17	13	− 19	166	− 52	16	− 5
	1. SCOTLAND, EAST	3	4	1 less	57	+ 1	5·5	− 2·9	31	+ 1	33	0	270	+ 2	26	0
	2. ENGLAND, N.E.	2	1	3 less	45	− 8	4·4	− 2·0	41	+11	44	+12	249	− 18	24	− 1
	3 ENGLAND, EAST	3	2	2 less	55	+ 3	5·6	− 0·6	24	− 11	26	− 12	250	− 54	24	− 4
	4. MIDLAND COUNTIES	3	2	2 less	50	0	4·8	− 2·3	25	− 6	27	− 7	237	− 40	22	− 4
	5. ENGLAND, SOUTH	2	1	4 less	47	− 1	4·6	− 3·1	18	−19	19	−21	247	− 66	23	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	7	0 (average)	66	+ 6	13·0	− 2·1	27	− 7	29	− 7	217	− 47	21	− 4
	7. ENGLAND, N.W.	3	4	1 less	59	+ 4	8·7	− 0·2	28	0	31	0	193	− 36	22	− 3
	8. ENGLAND, S.W.	3	2	3 less	54	− 1	7·3	− 3·7	27	−13	29	−14	273	− 71	25	− 7
	9. IRELAND, NORTH	3	5	1 less	64	0	10·0	− 0·5	20	−11	21	−12	201	− 61	19	− 6
	10. IRELAND, SOUTH	3	4	3 less	58	0	9·3	− 2·2	22	−14	23	−16	226	− 96	21	− 9
	—CHANNEL ISLANDS	3	2	3 less	57	− 4	5·1	− 4·5	31	−11	34	−12	330	− 51	31	− 4

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather in the north of Scotland was unsettled and rainy throughout the week; in all other parts of the Kingdom, however, the conditions were fair and dry until the period drew towards its close, when changeable, showery weather, with hail at times, extended to all parts of our Islands. Thunder and lightning occurred at some of the Scotch stations during the night of the 10th.

Temperature was considerably above the mean, the excess ranging from 3° in Ireland S. and the Channel Islands, to 4° or 5° in most other districts, 6° in Scotland E., and to 7° in England N.E. The highest of the maxima were registered either on the 7th or 8th, and ranged from 66° in England E. and N.E., to 56° in Scotland N. The lowest of the minima were recorded, as a general rule, on the 10th or 11th, when the thermometer fell to 31° in Scotland N., 32° in Scotland E., and to between 33° and 39° in most other districts; in the Channel Islands the lowest reading was 44°.

Rainfall was much in excess of the mean in Scotland N., and just equal to it in Scotland W.; in all other districts, however, there was a considerable deficit.

Bright Sunshine exceeded the mean in England N.E., but in nearly all other parts of the Kingdom there was a deficiency. The percentage of the possible duration ranged from 44 in England N.E., and from 34 in the Channel Islands, to 19 in England S., and to 13 in Scotland N.

Barometer and Wind.—During the greater part of the week the barometer was high over our south-western districts, while depressions to the northward of Scotland moved eastwards to Norway. Towards the end of the period, however, a large depression spread from the northward over our Islands, and the barometer fell very decidedly on all our coasts. Westerly to North-Westerly winds of moderate force were generally prevalent throughout the time, but on Friday or Saturday they increased considerably in strength, and attained the force of a moderate or fresh gale in several parts of the Kingdom.

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II.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	24	48·9	41·7	45·1	+ 4·6	23	1	7	1·35	+0·85	*	*	*	*
	Stornoway	53	33	50·6	42·1	46·2	+ 4·5	29	0	7	1·61	+0·95	18·8	−14·1	20	−15
	Wick	56	32	51·7	40·7	45·9	+ 4·1	33	4	7	0·73	+0·35	*	*	*	*
	Glencarron Ꞩ	53	31	47·8	40·1	43·8	+ 2·2	21	5	7	3·67	+2·67	*	*	*	*
	Fort Augustus Ꞩ	55	33	52·0	43·4	47·5	+ 4·9	39	0	7	0·75	+0·30	9·1	−16·2	10	−20
	Fort William Ꞩ	54	37	50·9	44·3	47·4	+ 3·6	38	0	7	1·60	+0·78	8·9	−18·3	9	−23
1. SCOTLAND, E.	Nairn	60	33	55·6	42·4	48·7	+ 5·9	47	0	5	0·47	+0·19	*	*	*	*
	Aberdeen	64	36	58·6	44·0	51·0	+ 8·3	63	0	5	0·16	−0·32	33·5	− 0·5	35	− 1
	Braemar Ꞩ	57	32	51·7	41·8	46·5	+ 6·8	32	1	3	0·36	−0·13	20·5†	− 9·5†	22†	−10†
	Ochtertyre Ꞩ	60	32	55·4	41·9	48·3	+ 5·1	45	0	3	0·58	−0·02	*	*	*	*
	Leith	62	36	56·6	45·1	50·6	+ 6·5	60	0	2	0·26	−0·10	*	*	*	*
	Marchmont Ꞩ	61	33	55·4	41·1	47·9	+ 5·8	45	3	2	0·26	−0·29	38·5	+ 8·6	41	+ 8
2. ENGLAND, N.E.	Alnwick Castle	59	38	55·9	45·1	50·2	+ 8·2	57	0	3	0·22	−0·29	*	*	*	*
	Durham	66	38	59·2	43·3	50·9	+ 8·2	62	0	2	0·19	−0·29	47·7	+19·7	51	+21
	Shields	60	38	57·1	44·4	50·5	+ 7·4	60	0	2	0·04	−0·36	*	*	*	*
	Scarborough ℳ	59	39	56·1	44·7	50·0	+ 6·2	56	0	2	0·14	−0·30	*	*	*	*
	York	64	39	59·1	43·4	50·9	+ 6·2	62	0	3	0·22	−0·20	38·4	+ 7·9	41	+ 9
	Spurn Head	59	43	54·4	44·3	49·1	+ 5·7	50	0	1	0·04	−0·29	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	63	38	56·7	42·6	49·3	+ 4·0	51	0	3	0·29	−0·11	26·4	− 6·6	28	− 8
	Yarmouth	61	40	53·9	43·3	48·4	+ 4·8	45	0	3	0·14	−0·27	*	*	*	*
	Geldeston	66	39	57·2	42·7	49·6	+ 4·9	53	0	3	0·08	−0·30	19·1	−17·8	21	−19
	Cambridge	64	36	58·1	42·3	49·8	+ 4·3	55	0	3	0·20	−0·17	27·3	− 7·7	29	− 9
	Rothamsted	63	40	57·3	44·1	50·4	+ 5·9	59	0	3	0·27	−0·18	23·2	−10·4	25	−11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	34	57·6	41·0	48·9	+ 4·1	53	3	3	0·19	−0·21	*	*	*	*
	Loughborough	62	41	58·3	43·9	50·8	+ 5·4	62	0	3	0·28	−0·16	*	*	*	*
	Stamford (Ketton Hall)	63	37	60·6	41·9	50·8	+ 5·6	62	0	2	0·08	−0·34	*	*	*	*
	Cheadle ℳ	58	39	55·4	41·8	48·3	+ 4·8	45	1	3	0·61	+0·11	*	*	*	*
	Shirley (near Solihull)	59	38	55·3	42·1	48·4	+ 4·0	45	0	3	0·30	?	*	*	*	*
	Churchstoke ℳ	62	35	55·1	41·2	47·8	+ 4·3	44	2	3	0·24	−0·21	28·4	− 4·3	31	− 4
	Hereford ℳ	64	38	58·6	43·2	50·5	+ 4·8	60	0	3	0·08	−0·34	*	*	*	*
	Cirencester	60	38	57·1	42·9	49·7	+ 6·0	54	0	3	0·13	−0·35	24·3	− 9·5	26	−10
	Oxford	62	42	58·3	43·9	50·8	+ 4·8	62	0	2	0·12	−0·28	22·8	−10·3	25	−12
5. ENGLAND, S.	London	64	40	58·3	44·6	51·1	+ 4·1	64	0	3	0·16	−0·24	15·4†	−12·6†	17†	−13†
	North Foreland	62	40	56·3	44·6	50·2	+ 6·6	57	0	3	0·12	?	*	*	*	*
	Dungeness	60	40	55·6	43·7	49·4	+ 4·4	52	0	1	0·01	−0·45	*	*	*	*
	Hastings (St. Leonards)	60	40	55·9	45·6	50·5	+ 4·7	60	0	2	0·07	−0·42	8·7	−30·3	9	−33
	Southampton	65	40	60·7	45·4	52·7	+ 6·0	75	0	1	0·01	−0·49	18·9	−19·1	20	−21
	Hurst Castle	61	44	58·0	46·1	51·8	+ 5·5	69	0	1	0·02	−0·42	*	*	*	*
	Stowell ℳ	58	39	55·3	42·5	48·6	+ 3·9	46	0	2	0·05	−0·50	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	36	50·9	44·0	47·3	+ 2·8	37	0	7	1·53	+0·15	*	*	*	*
	Glasgow	56	35	52·0	44·4	48·0	+ 4·3	42	0	4	0·84	+0·32	21·5	− 6·3	23	− 6
	Ardrossan	57	40	51·9	45·4	48·5	+ 4·4	46	0	5	0·41	−0·12	*	*	*	*
	Glenlee Ꞩ	58	36	54·0	43·3	48·4	+ 5·7	45	0	3	0·74	−0·03	*	*	*	*
	Douglas (Isle of Man)	57	39	54·6	44·0	49·1	+ 4·9	50	0	3	0·16	−0·46	31·7	− 8·0	34	− 9
7. ENGLAND, N.W.	Stonyhurst	54	41	52·1	44·1	47·9	+ 3·7	41	0	3	0·43	−0·24	32·4	+ 1·1	35	+ 1
	Blackpool ℳ	56	41	53·1	44·9	48·8	+ 4·2	48	0	3	0·42	−0·06	29·7	− 0·6	32	0
	Manchester (Prestwich)	57	38	54·3	43·1	48·6	+ 3·9	46	0	3	0·50	0·00	25·1	?	27	?
	Liverpool Obsy. (Bidston)	57	43	53·1	44·6	48·7	+ 3·4	47	0	3	0·20	−0·20	*	*	*	*
	Llandudno ℳ	58	43	54·1	46·2	50·0	+ 3·6	56	0	3	0·47	0·00	*	*	*	*
	Holyhead	56	42	53·4	44·7	48·8	+ 2·5	48	0	3	0·20	−0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	63	36	57·9	40·0	48·5	+ 3·8	54	6	3	0·25	−0·41	*	*	*	*
	Pembroke	53	45	51·3	46·4	48·7	+ 2·9	47	0	3	0·17	−0·32	33·8	− 6·2	36	− 8
	Arlington (N. Devon)	60	37	56·0	42·7	49·0	+ 6·0	49	0	3	0·45	−0·25	*	*	*	*
	Cullompton ℳ	63	37	57·8	43·1	50·1	+ 3·5	57	0	1	0·01	−0·41	25·8	− 9·2	28	− 9
	Falmouth	58	45	54·8	46·1	50·2	+ 3·1	57	0	4	0·62	−0·03	26·5	−13·5	28	−16
	Plymouth	59	42	55.2	44·4	49·5	+ 1·7	53	0	3	0·08	−0·47	25·1	−14·9	27	−15
	Prawle Point	64	42	57·3	45·6	51·2	+ 5·0	64	0	2	0·12	−0·35	*	*	*	*
9. IRELAND, N.	Malin Head	54	39	50·9	45·4	48·0	+ 3·2	42	0	4	0·45	?	*	*	*	*
	Londonderry	59	37	55·2	44·3	49·5	+ 3·6	53	0	3	0·78	+0·20	*	*	*	*
	Edenfel (Omagh)	57	33	53·9	43·6	48·5	+ 4·0	46	0	3	0·59	+0·07	*	*	*	*
	Belmullet	54	41	52·3	46·6	49·3	+ 3·1	51	0	4	0·57	−0·11	*	*	*	*
	Markree Castle	59	34	55·2	43·7	49·2	+ 3·7	50	0	3	0·59	+0·01	19·6	−12·2	21	−14
	Armagh	60	35	56·0	41·9	48·6	+ 4·4	47	0	2	0·29	−0·18	22·4	− 7·6	24	− 8
	Donaghadee	62	38	56·7	43·9	50·0	+ 4·8	56	0	5	0·21	−0·27	*	*	*	*
	Edgeworthstown	59	36	55·8	42·7	48·9	+ 5·0	48	0	1	0·35	−0·25	*	*	*	*
10. IRELAND, S.	Dublin	62	42	57·3	45·7	51·2	+ 4·6	64	0	3	0·27	−0·21	28·6	− 7·6	31	− 8
	Parsonstown	59	38	54·4	43·7	48·8	+ 3·3	48	0	2	0·19	−0·31	21·3	−12·7	23	−14
	Kilkenny	62	38	55·6	42·6	48·8	+ 3·1	48	0	2	0·12	−0·40	*	*	*	*
	Roche's Point	58	44	55·4	46·6	50·8	+ 3·5	62	0	1	0·15	−0·57	*	*	*	*
	Valencia	57	46	53·6	47·1	50·2	+ 2·1	57	0	6	0·67	−0·24	15·1	−22·9	16	−25
	Killarney	59	38	54·6	45·1	49·6	+ 3·1	53	0	2	0·62	?	*	*	*	*
	Foynes	?	42	?	46·5	?	?	?	0	3	0·50	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	46	54·0	46·7	50·2	+ 2·2	57	0	3	0·30	−0·22	25·4	?	27	?
	Jersey	58	44	56·6	47·3	51·7	+ 3·2	68	0	2	0·15	−0·37	31·3	−12·3	34	−13

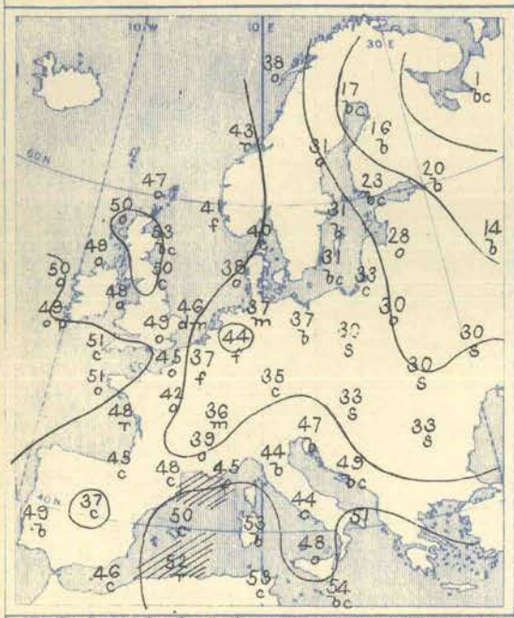
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

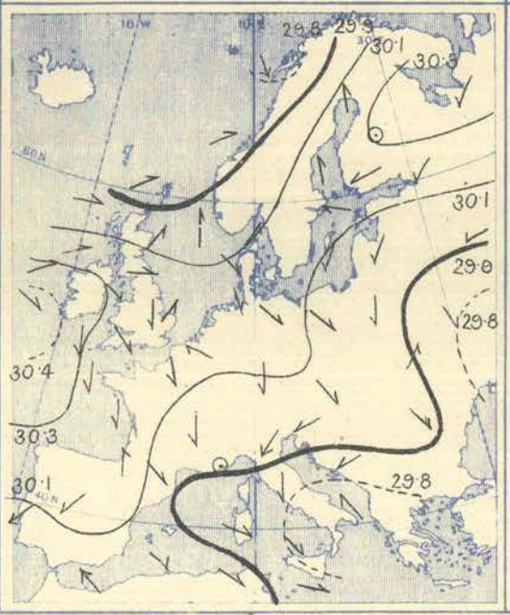
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 5th April.

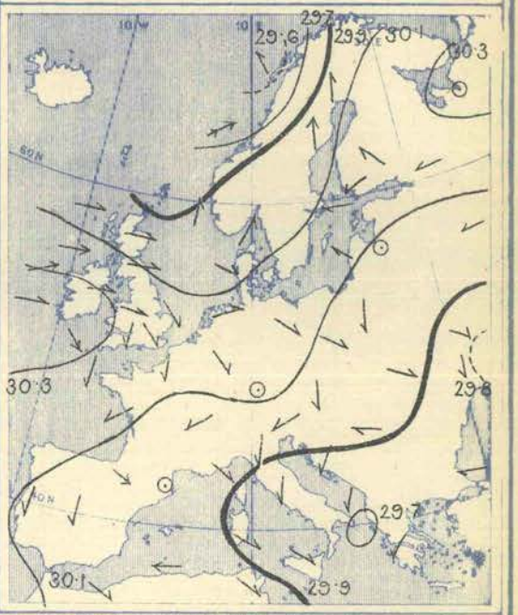
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the eastern and central parts of Ireland and the north-east of Great Britain; dull in other parts of our Islands, with slight rain over eastern and central England. Fine in Sweden and northern and central Russia, as well as in Spain, the south of France, and northern Italy; cloudy in other parts of the Continent, with rain in a few places, and with snow in Austria and the south of Russia. Rain falling later in the north of Scotland, and also in Norway, Denmark, Germany, and the south-west of France.

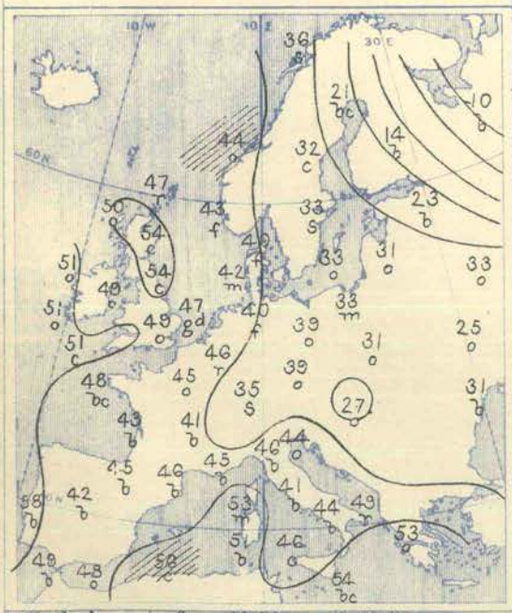
Temperature risen over England and France, changed irregularly elsewhere, but fallen in most places. Morning readings highest, (1) 54° at Malta, and 53° at Sanguinaire, Cagliari, Tunis, and Sfax; (2) 54° at Prawle Point, and 51° at Scilly and Brest; (3) 53° at Aberdeen. Lowest, 1° at Archangel, 14° at Moscow, 16° at Kuopio, and 17° at Haparanda; below the freezing point in Sweden and Russia generally, and very little above it in Germany and Austria. Rising during day to 55° and upwards in many parts of Great Britain and France, and reaching 64° at Prawle Point; exceeding 60° over Spain and southern Italy; the highest reading of all being 66° at Oporto.

Wind moderate from the Westward or North-Westward over all the more northern parts of our Islands, but light from the Northward on our southern coasts and over France; North-Easterly in Spain and Italy. Southerly over the greater part of Scandinavia. Easterly or North-Easterly over northern Russia; Northerly at the Baltic stations; North-Westerly in Germany and Austria. No important change occurring during day, but South-Westerly gale springing up at Christiansund.

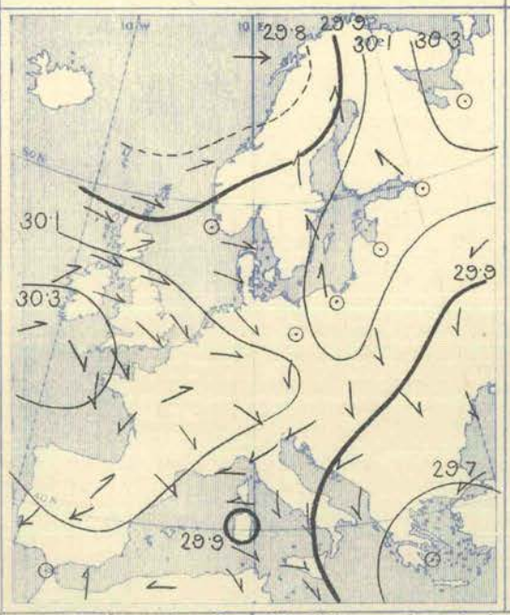
Barometer highest, 30·4 ins. and upwards in an anticyclone lying off the south-west of Ireland; 30·3 ins. and upwards in another system over northern Russia. Lowest, 29·7 ins. and less in a depression over the south of Russia; 29·8 ins. and upwards in two systems lying respectively over the north-west of Norway and to the northward of our Islands, and also in another disturbance over the southern parts of Italy and the Adriatic. Northern depressions subsequently moving away to the north-eastward; southern disturbances passing slowly south-eastwards.

Monday, 6th April.

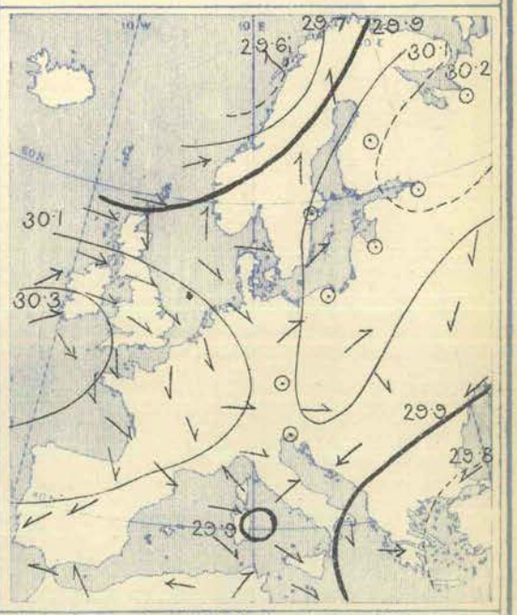
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, south-eastern, southern, and south-western Europe, as well as over Finland and the north of Russia; dull, but fair over the United Kingdom as a whole; unsettled over Scandinavia, the Baltic, and Germany, with snow at Bodö, Stockholm, Prague, and Munich; rain at Karlstad, as well as over the Netherlands and western Germany. Rain and snow falling later over northern and central Europe, and small quantities of rain over the northern parts of the United Kingdom.

Temperature in morning highest, 56° at Algiers, 54° at Malta, 54° at Shields and Aberdeen also, and exceeding 50° over several parts of our Islands. Lowest, (1) − 10° Fahr. at Archangel, + 14° at Kuopio, 21° at Haparanda, 23° at St. Petersburg; (2) 23° at Kharkov, 25° at Kiev, 26° at Cracow, 27° at Buda-Pesth, 31° at Warsaw. Rising later to much above 50° all over the British Islands, to 57° in London, 59° at Donaghadee, and to between 60° and 63° over our north-eastern counties. Exceeding 60° also over the Spanish Peninsula and the southern parts of France and Italy, and reaching 68° at Lisbon.

Wind light to moderate (and anticyclonic) over the British Islands and their neighbourhood; (1) South-Westerly in the west of Ireland; Westerly at our northern stations; North-Westerly over England; Northerly over the north and west of France; North-Easterly over the Iberian Peninsula; (2) Westerly (and cyclonic) over the Shetlands and Norway; Southerly over Sweden; (3) very light from the Northward over central Europe; North-Westerly in the south of Russia. A cyclonic circulation of moderate breezes prevalent over the northern half of the Mediterranean. No important change occurring during day.

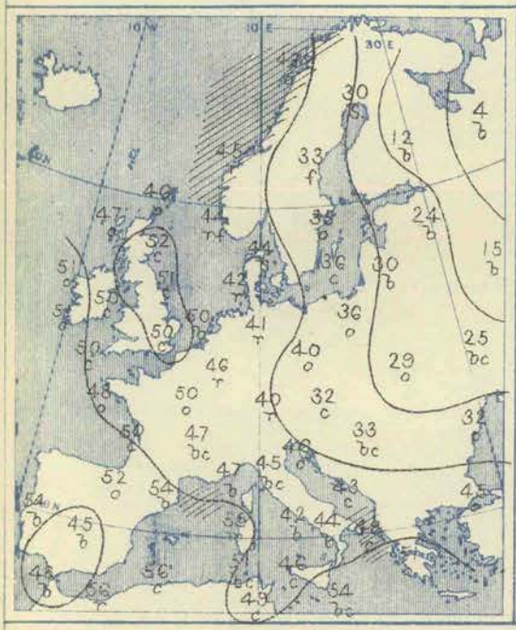
Barometer highest, (1) 30·3 ins. and more over the south-west of our Islands, and exceeding 30·1 ins. over the whole of Ireland, England, and the greater part of France; (2) 30·32 ins. at Archangel, and exceeding 30·1 ins. over Finland and the greater part of the Baltic. Lowest, 29·8 ins. and less to 29·9 ins. over the north of Norway and the Shetland Islands; below 29·8 ins. over south-eastern Europe, and below 29·9 ins. in a small depression over Sardinia. New low pressure system approaching the north of Scandinavia later. No decided change elsewhere.

Wyman & Sons, Lt. Lith 63, Carter Lane.

Tuesday, 7th April.

Temperature and Weather.

8 a.m.

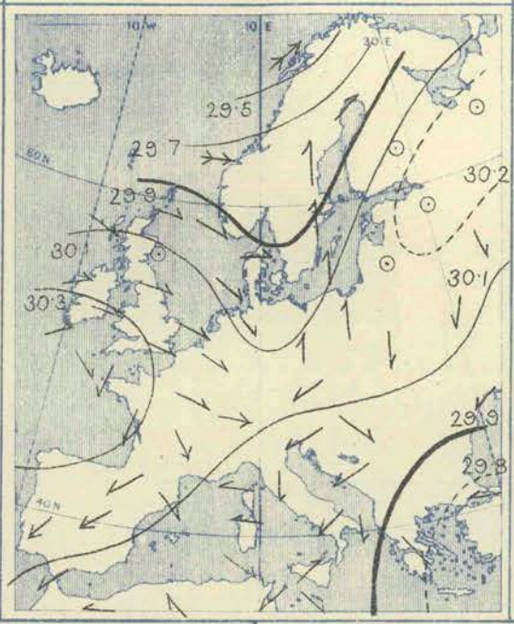


Weather in morning cloudy or dull over western and central Europe generally, with rain on some parts of our own north-western coasts, as well as at many of the Danish, German, and Scandinavian stations, and with snow at Haparanda. Fine in Russia and also over southern Europe as a whole, but dull at the Greek and Turkish stations. Sky clearing later in many parts of England, but showers falling at several of our western and northern stations, and steady rain in the Shetlands and Hebrides.

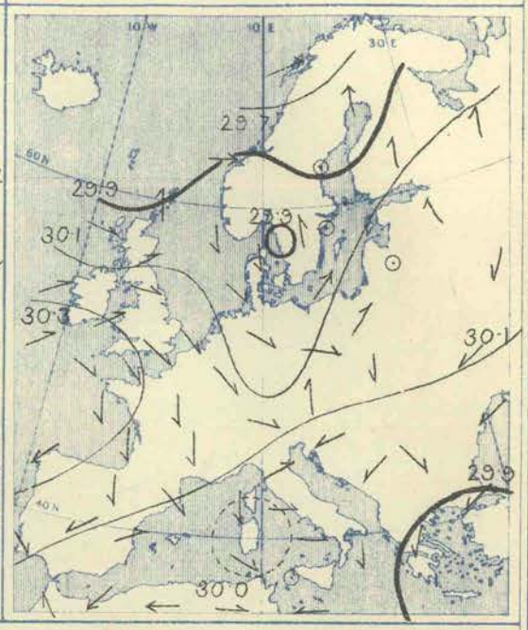
Temperature fallen in the north of our Islands, but risen elsewhere. Morning readings highest, 59° at Barcelona, 56° at Oran and Algiers, and 55° at Sanguinaire; above 50° at the Mediterranean and Spanish coast stations generally, and also in the north-east of Great Britain. Lowest, 4° at Archangel, 12° at Kuopio, 15° at Moscow, and 16° at Kharkov; below the freezing point over the whole of Russia, and very little above it in Austria and eastern Germany. Rising during day to 60° and upwards in many parts of Great Britain, and also in the west and south of France; exceeding 65° at some of the Spanish and Portuguese stations.

Barometer and Wind.

8 a.m.



6 p.m.



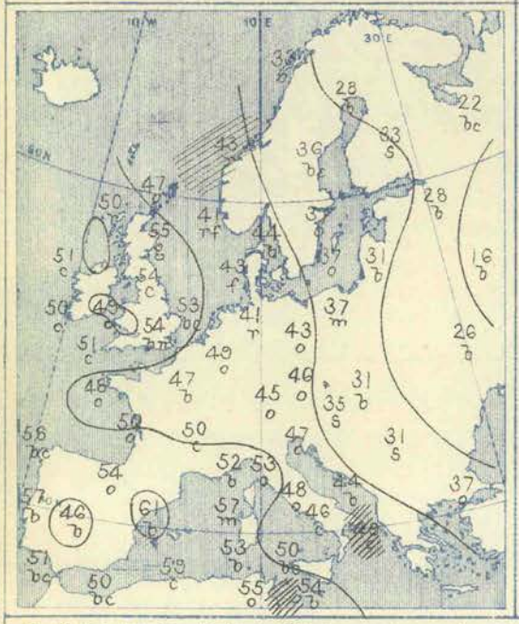
Wind light from the Westward or South-Westward over all the more northern parts of our Islands, but from the North-Westward on our southern coasts, as well as over France and the eastern and southern shores of the North Sea; Northerly or North-Easterly over the Spanish Peninsula and the south-west of France. Strong to a gale from West or South-West in the west of Norway; moderate from the Southward over Sweden, Finland, and the Baltic. Variable in Germany; Northerly over Austria, Italy, and the south of Russia. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards in an anticyclone stretching from the Atlantic over the Bay of Biscay, the north-west of France, and all the more south-western parts of our Islands; 30·2 ins. and upwards in another system over northern Russia. Lowest, 29·5 ins. and less in a depression off the north-west of Norway, with "V" shaped secondaries over Scandinavia and Denmark; 29·8 ins. and less in a large shallow area over Asia Minor. New, but shallow depression appearing later off our own extreme northern coasts.

Wednesday, 8th April.

Temperature and Weather.

8 a.m.

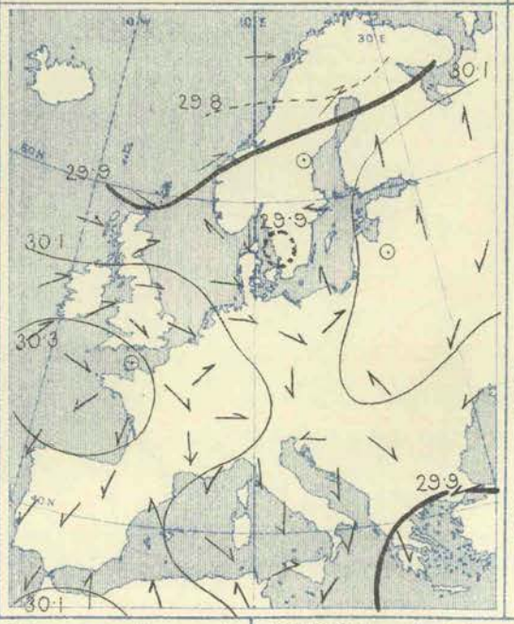


Weather in morning cloudy or dull over western and central Europe generally, as well as at many of the northern stations; rain falling in the Hebrides and the west of Norway, and also at Cuxhaven; snow reported in several parts of Finland and Austria. Fine in the east and south-east of England, as well as over southern Europe as a whole, and the greater part of Russia. A little rain falling later in the north of Scotland generally, and also in Germany, and a large amount (1·0 inch) at Munich.

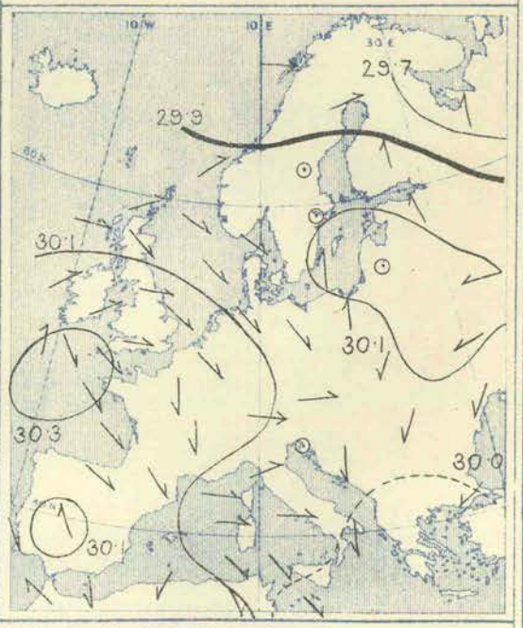
Temperature risen in most countries, but fallen in Norway. Morning readings highest, (1) 61° at Barcelona, 59° at Algiers, and 58° at Coruna; (2) 55° at Aberdeen, and 54° at Shields and in London; above 50° in many parts of the United Kingdom. Lowest, 13° at Kharkov, 16° at Moscow, 22° at Archangel, and 26° at Kiev and Nicolaieff; below the freezing point in some parts of Poland and Austria. Rising during day to between 60° and 64° in many parts of Great Britain and France; exceeding 65° over the Spanish Peninsula and the extreme south of France, and reaching 73° at Croisette.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to moderate from the Westward or South-Westward over the greater part of our Islands, but North-Westerly in the south of England; Northerly or North-Easterly over France, Spain, and Italy. Light from the Westward or North-Westward over Denmark, Germany, and Austria. Southerly over the Baltic and Finland; Easterly or North-Easterly in the south of Sweden. North-Easterly over the central and southern parts of Russia. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards over the south-west of our Islands and the north-west of France; 30·1 ins. and upwards in an anticyclone stretching from the Atlantic over the whole of Ireland, England, the Netherlands, France, and Spain, and also in another large system over Russia. Lowest, 29·8 ins. and less in the north of Scandinavia; 29·9 ins. and less (apparently) in a small secondary depression over the south of Sweden, and also in a large area over Greece and Asia Minor. No important change occurring later, but new shallow depression beginning to approach our extreme west coasts from the Atlantic.

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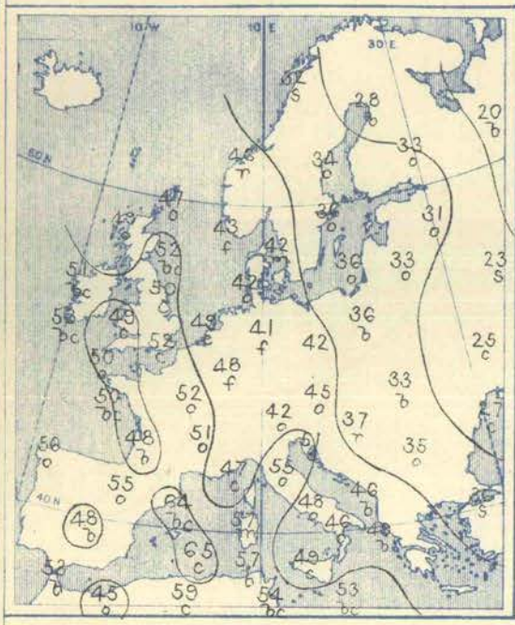
Thursday, 9th April.

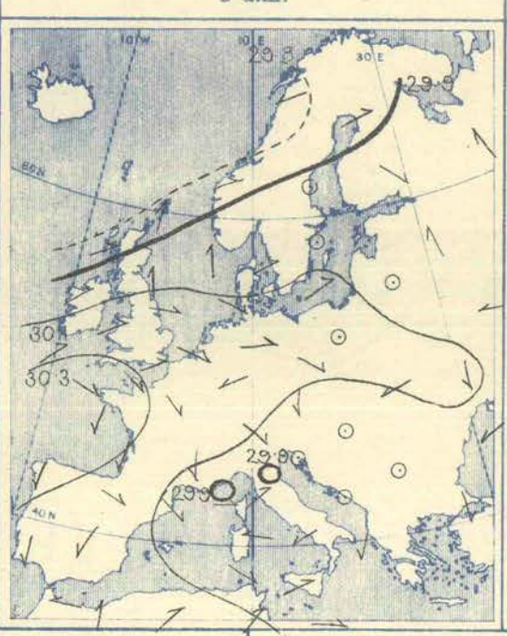
Temperature and Weather.

8 a.m.

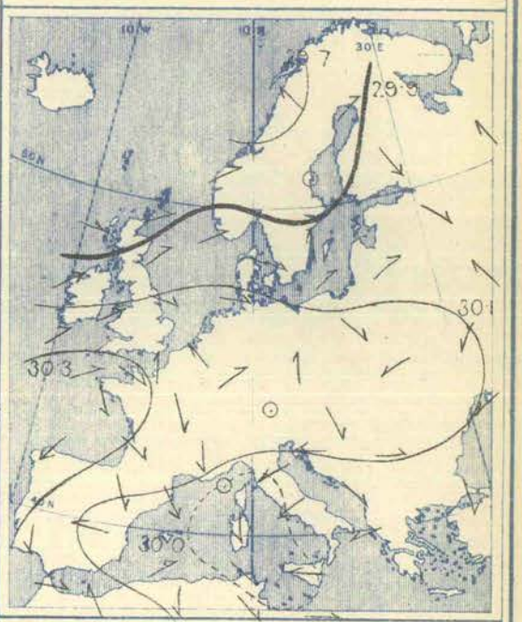


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over western and southern Europe generally, but dull in a few places. Dull and unsettled over the northern, eastern, and central countries, with fog over the south of Scandinavia, the Gulf of Finland, and north Germany; rain falling at Christiansund, and also at Vienna, and snow at Bodö, Moscow, Kharkov, and Constantinople. Rain falling later in the west and extreme north of our Islands generally; no decided change occurring in other parts of western Europe, but heavy rain falling at Rome.

Temperature changed very irregularly. Morning readings highest, 65° at Palma, 64° at Barcelona, 61° at Perpignan, and 59° at Lisbon and Algiers; above 55° at several of the Mediterranean and Spanish coast stations, and slightly above 50° in many parts of the United Kingdom. Lowest, 18° at Kharkov, 20° at Archangel, 23° at Moscow, and 25° at Kiev; below the freezing point in many parts of northern and eastern Europe. Rising during day to 60° and upwards at several of our own northern stations, but remaining below that point in the south and east of England. Exceeding 65° over the Spanish Peninsula and the southern parts of France and Italy, and reaching 75° at Madrid.

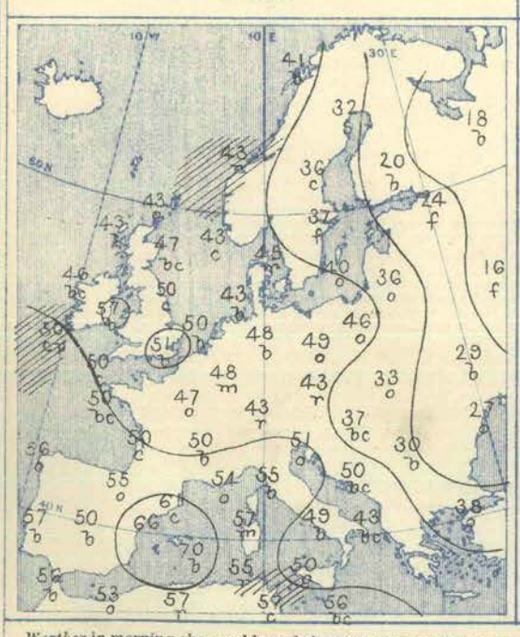
Wind light to moderate from the South-Westward in Ireland and Scotland; light from West or North-West over England, Denmark, and north Germany; from North or North-West in France, and from North-East over the Spanish Peninsula. Southerly over the south of Scandinavia, and South-Easterly over northern Russia, but calm in Sweden. Light from the North-Eastward in the south of Russia; calm in Austria; variable in Italy. Subsequently backing to the Southward in the south-east of England; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·3 ins. and upwards in an anticyclone stretching from the Atlantic over the south of Ireland, the greater part of England, the Netherlands, France, and the north of Spain. Lowest, 29·8 ins. and less in a large shallow area lying to the northward of our Islands, and extending eastwards over the north-west of Norway; 30·0 ins. and upwards in another large area extending from Asia Minor to northern Italy, Corsica, and Sardinia. No important change occurring during day.

Friday, 10th April.

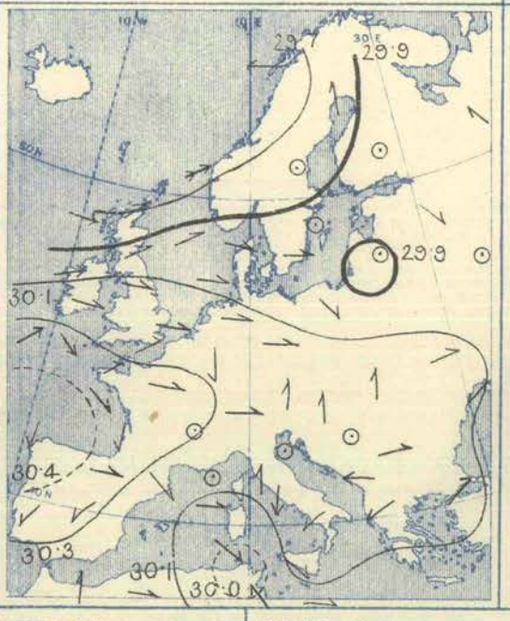
Temperature and Weather.

8 a.m.

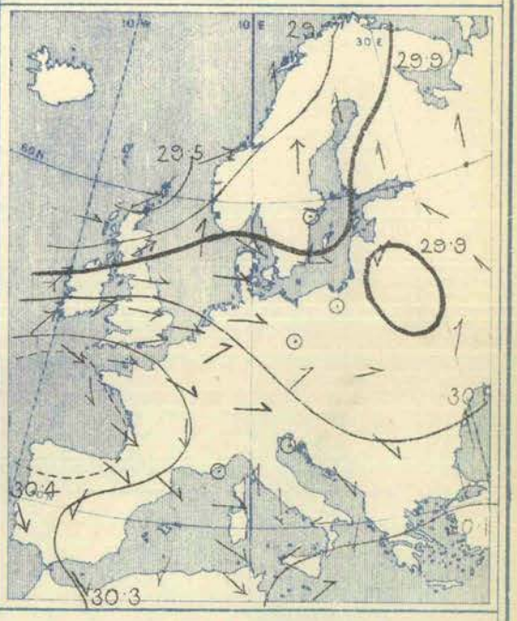


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and showery over our Islands generally, but fine in many parts of Scotland, and also in the north of Ireland. Fine over southern Europe, as well as over Denmark and northern Russia; cloudy or dull in other parts of the Continent, with fog at many of the northern stations, and with rain in south Germany and also at Christiansund; snow reported at Bodö. Rain or hail falling later in nearly all parts of the United Kingdom, and sleet in the north of Scotland; thunder heard at Sumburgh Head, and lightning seen at night at many of the Scotch stations.

Temperature fallen in our Islands, and also over northern Russia, risen in most other localities. Morning readings highest, 70° at Palma, 66° at Barcelona, 61° at Perpignan; touching 55° or more at several of the Mediterranean and Spanish coast stations. Lowest, 16° at Moscow, 18° at Archangel, 20° at Kuopio, and 23° at Kharkov. Daily maxima below 50° on our extreme north and north-west coasts, but thermometer exceeding 55° over the central and southern parts of England, and reaching 57° at Loughborough and in London. Rising to 60° and upwards in Italy and the south of France, and to 70° and upwards in Spain; reaching 75° at Madrid.

Wind Westerly or South-Westerly over north-western Europe generally; strong in force in the west of Ireland, and also in Caithness, and blowing a gale at Christiansund. Fresh from the North-Westward on the south-west coasts of England; light or moderate from North-West in France, and from North or North-East in Spain and Italy, as well as in the south of Russia; calm in Austria; Westerly or North-Westerly over north Germany; Easterly or South-Easterly in Finland; calm over central Sweden. Increasing at night to a moderate or fresh gale from South-West and West on many parts of our western and northern coasts.

Barometer highest, 30·4 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay and the north-west of Spain. Lowest, 29·6 ins. and less in a large depression lying to the west of Norway; 29·9 ins. and less in a small shallow system over the Baltic provinces; 30·0 ins. and less in another system lying between Sardinia and Tunis. Depression off Norwegian coasts spreading southwards later, and barometer falling rather decidedly over the northern parts of our Islands. Mediterranean disturbance moving south-eastwards.

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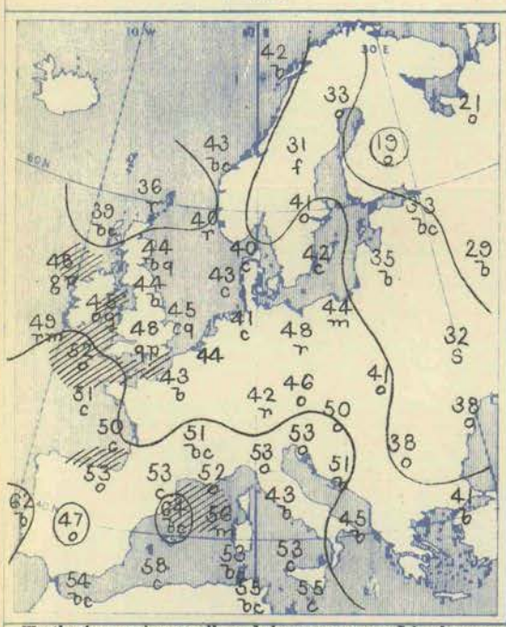
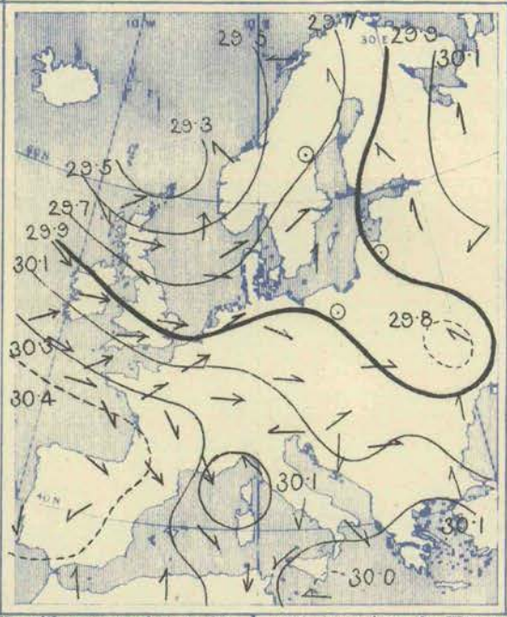
Saturday, 11th April.

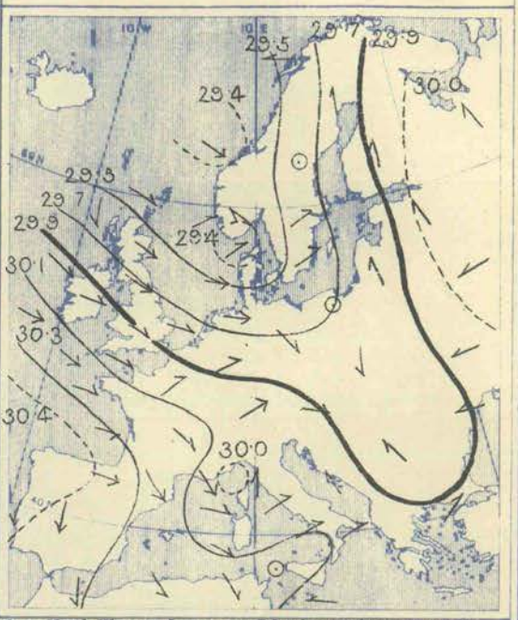
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning squally and showery over our Islands generally, with snow or sleet in the north of Scotland. Fine over southern Europe as a whole, and also in the west of Norway; cloudy or dull in most other parts of the Continent, with fog at some of the Swedish stations; rain at Skudesnaes, Berlin, and Munich, and snow at Uleaborg. Rain falling later over western Europe generally, but amounts mostly slight.

Temperature risen in Austria and Russia, fallen in most other countries. Morning readings highest, 64° at Palma, 62° at Barcelona and Lisbon, and 58° at Algiers; above 50° at the Mediterranean and Spanish coast stations generally, as well as over the Bay of Biscay and the English Channel. Lowest, 19° at Kuopio, 21° at Archangel, 24° at Kharkov, and 29° at Moscow; below 40° over Sweden and Russia generally, and also in the north of Scotland. Daily maxima below 55° in nearly all parts of our Islands, and below 50° at many of our northern and north-western stations; thermometer exceeding 60° over southern Europe generally, and reaching 73° at Madrid, and 77° at Lisbon.

Wind strong from the Westward or North-Westward over our Islands; moderate from the same quarters in the west and south of France; moderate to strong from South-West in Denmark and the Netherlands, and from South in the south of Norway; South-Easterly or Easterly in the west of Norway. Light to moderate from the Westward in Germany and Austria; Southerly or South-Easterly in Russia; Northerly (North-Westerly to North-Easterly) in Spain and Italy. Subsequently increasing to a gale on several of the more exposed parts of our northern coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the Spanish Peninsula, the Bay of Biscay, and the south-west of France; 30·1 ins. and upwards in another system over northern Russia. Lowest, 29·3 ins. and less in a large depression lying to the northward of our Islands; 29·8 ins. and less in a small system near Kiev; 30·0 ins. and less in another disturbance to the southward of Malta; 30·1 ins. and less in yet another over Corsica and the Gulf of Genoa. Depression in north subsequently moving eastwards; shallow secondary systems passing in a similar direction across our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week two anticyclonic systems were observed; the one over northern Russia, and the other over the greater part of western Europe, with its nucleus to the south-westward of our Islands. In each of those regions the weather was fair and dry, with high temperatures over the United Kingdom, but over Scandinavia the conditions were affected by cyclonic systems which appeared off the Norwegian coasts, the depressions occasionally spreading southwards and producing unsettled weather over central Europe.

After the middle of the week the anticyclone over northern Russia broke up, while that in the south-west receded slowly to the southward. A large and complex depression now spread over the whole of western and central Europe from the northward, and occasioned strong winds or gales from West or North-West over our Islands and France, with squally, showery weather and a decided fall of temperature. At the close of the period the depression was moving eastwards, but numerous small secondary systems were travelling south-eastwards across the United Kingdom, their passage being attended by squalls of hail or sleet, and by thunder and lightning at several of our northern stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 86.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	30·1	+ 3·1	32	+ 3	SOUTHPORT	28·4	?	31	?
OSWALDKIRK (Yorkshire)	37·9	+ 6·1	41	+ 8	MANCHESTER (Oldham Road)	20·8*	?	22*	?
WORKSOP	25·6	- 2·9	28	- 3	COLWYN BAY	33·3*	?	36*	?
THURCASTON (Leicestershire)	24·5	- 4·5	26	- 4	TENBY				
MARGATE					NEWQUAY				
WESTBOURNE (Sussex)	25·9*	-14·6	28*	- 17	TORQUAY	22·0*	-18·8	24*	- 20
BRIGHTON	19·8	-18·2	21	- 21	ARLEY COTTAGE (County Cavan)	17·7	-12·1	19	- 13
EASTBOURNE	16·4	-22·5	18	- 24	GUERNSEY	31·9*	-11·1	35*	- 12

The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 16.] *Third Series.* WEEK ENDING SATURDAY, APRIL 18TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 92.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	° 58	° 26	° 48·5	° 36·1	° 42·0	1 below	Day-deg. 18	Day-deg. − 7	Day-deg. 17	Day-deg. − 2	Day-deg. 234	Day-deg. + 74	Day-deg. 296	Day-deg. −274
	1. SCOTLAND, EAST	60	24	50·9	35·8	43·0	0 (average)	33	+ 2	17	− 2	300	+ 87	398	−206
	2. ENGLAND, N.E.	62	29	49·9	36·5	42·9	1 below	29	+ 1	15	+ 1	305	+ 96	324	−196
	3. ENGLAND, EAST	62	30	51·4	35·9	43·3	2 below	35	− 4	17	+ 2	336	+ 68	365	−219
	4. MIDLAND COUNTIES	65	31	53·3	37·9	45·2	0 (average)	40	− 2	11	− 5	383*	+ 89	349	−236
	5. ENGLAND, SOUTH	61	35	53·2	40·3	46·4	0 (average)	38	− 4	5	− 4	401	+ 95	234	−231
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	26	50·8	37·4	43·8	1 below	32	− 1	13	0	330	+102	230	−204
	7. ENGLAND, N.W.	59	33	51·4	41·0	45·9	0 (average)	32	− 3	3	− 8	353	+123	201	−235
	8. ENGLAND, S.W.	64	36	54·3	43·3	48·5	2 above	46	+ 5	0	− 7	458	+126	155	−194
	9. IRELAND, NORTH	58	33	52·4	41·1	46·5	0 (average)	35	− 2	3	− 7	425	+132	157	−218
	10. IRELAND, SOUTH	61	37	55·0	44·4	49·4	2 above	52	+ 9	0	− 7	562	+169	87	−199
	—CHANNEL ISLANDS	56	36	54·5	46·3	50·2	1 above	57	+12	0	− 1	626	+209	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 92.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH		10ths of in.	10ths of ins.			Ins.	Ins.								
		5	9	3 more	86	+10	20·9	+ 4·1	35	+ 3	35	+ 2	201	− 51	18	− 4
	1. SCOTLAND, EAST	4	4	1 less	61	+ 2	5·9	− 3·0	38	+ 6	38	+ 5	308	+ 8	27	0
	2. ENGLAND, N.E.	4	2	2 less	49	− 8	4·6	− 2·2	37	+ 6	39	+ 7	286	− 12	25	− 1
	3. ENGLAND, EAST	5	5	1 more	60	+ 4	6·1	− 0·4	36	− 1	37	− 1	286	− 54	25	− 4
	4. MIDLAND COUNTIES	6	5	1 more	56	+ 3	5·3	− 2·2	37	+ 4	38	+ 3	274	− 37	24	− 3
	5. ENGLAND, SOUTH	5	4	1 less	52	0	5·0	− 3·2	30	− 9	31	− 9	277	− 75	24	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	2 more	71	+ 8	13·9	− 1·9	43	+ 7	45	+ 7	260	− 40	23	− 3
	7. ENGLAND, N.W.	5	6	2 more	64	+ 6	9·3	0·0	43	+14	44	+15	236	− 21	24	− 2
	8. ENGLAND, S.W.	5	4	1 less	59	+ 1	7·7	− 3·9	31	−11	33	−11	304	− 81	26	− 7
	9. IRELAND, NORTH	5	8	3 more	69	+ 2	10·8	− 0·2	23	−10	24	−10	224	− 72	19	− 7
	10. IRELAND, SOUTH	4	4	2 less	62	+ 1	9·7	− 2·4	27	−11	27	−13	253	−101	22	− 9
	—CHANNEL ISLANDS	5	2	3 less	62	− 3	5·3	− 4·8	36	−11	38	−11	366	− 62	31	− 5

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was very changeable during the greater part of the period, frequent showers of hail or rain alternating with intervals of clear sky. Towards the end of the week, however, the conditions became more settled and the showers ceased.

Temperature was either just equal to or a little below the normal over the greater part of the Kingdom, but was slightly in excess in Ireland S., England S.W., and the Channel Islands. The highest of the maxima were recorded on the 18th, and ranged from 65° in the Midland counties, and 64° in England S.W., to 58° in Scotland N. and Ireland N., and to 56° in the Channel Islands. During the earlier part of the week the daily maxima were somewhat low. The lowest of the minima were recorded, as a rule, on the 14th or 15th; they varied from 24° to 26° in Scotland, from 33° to 37° in Ireland, and from 29° to 36° over England.

Rainfall did not differ much from the mean value, being slightly in excess in some parts of the Kingdom, and showing some deficiency in others.

Bright Sunshine was fairly abundant over the greater part of the country, but was again deficient in Ireland, as well as over the east, south, and south-west of England, and in the Channel Islands. The percentage of the possible duration ranged from 45 in Scotland W., and 44 in England N.W., to 31 in England S., 27 in Ireland S., and 24 in Ireland N.

Barometer and Wind.—During the whole of this period the barometer was highest in the south-western parts of our area, and although no depressions of importance passed directly over us, some well-marked systems appeared—first to the north-eastward, and then to the north-westward of the Kingdom. The winds and weather were affected by these depressions, as well as by some small secondary systems. North-Westerly breezes of moderate strength were prevalent during the first half of the period, and South-Westerly to Westerly winds of varying force during the latter.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 91 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	33	46·9	37·1	41·8	+ 0·5	14	19	5	0·61	+0·16	*	*	*	*
	Stornoway	53	33	48·3	36·4	42·1	- 0·7	24	16	5	0·69	+0·11	44·6	+ 7·8	45	+ 8
	Wick	58	30	49·1	34·6	41·5	- 1·3	20	28	4	0·29	-0·09	*	*	*	*
	Glencarron ℌ	51	28	47·2	34·6	40·6	- 2·1	15	27	6	1·93	+1·01	*	*	*	*
	Fort Augustus ℌ	54	26	49·9	35·8	42·5	- 1·8	30	17	4	0·72	+0·27	27·7	+ 0·8	28	+ 1
	Fort William ℌ	53	30	49·6	38·1	43·6	- 1·1	28	11	6	0·99	+0·21	31·2	- 2·3	32	- 2
1. SCOTLAND, E.	Nairn	56	24	49·7	33·6	41·3	- 2·7	22	32	4	0·26	-0·02	*	*	*	*
	Aberdeen	59	32	50·0	35·9	42·6	- 1·1	30	17	5	0·40	-0·05	35·7	- 0·2	36	0
	Braemar ℌ	53	27	47·1	32·7	39·6	- 1·0	14	34	4	0·30	-0·20	45·7†	+14·2†	46†	+14†
	Ochtertyre ℌ	60	32	53·7	37·0	45·0	+ 0·8	42	14	3	0·40	-0·11	*	*	*	*
	Leith	60	36	53·9	38·4	45·8	+ 1·0	42	10	2	0·32	-0·02		*	*	*
	Marchmont ℌ	58	32	50·7	37·4	43·7	+ 0·7	31	13	3	0·44	-0·08	3	+ 6·8	40	+ 6
2. ENGLAND, N.E.	Alnwick Castle	55	31	47·7	36·4	41·8	- 0·9	16	22	4	0·22	-0·26	*	*	*	*
	Durham	62	29	51·5	34·2	42·4	- 1·3	36	22	5	0·19	-0·26	37·8	+ 9·1	39	+10
	Shields	57	31	50·3	35·9	42·8	- 1·0	31	17	3	0·16	-0·22	*	*	*	*
	Scarborough ℌ	56	35	48·8	36·6	42·4	- 2·1	25	15	3	0·11	-0·31	*	*	*	*
	York	62	31	52·6	36·3	44·1	- 1·5	39	16	5	0·40	+0·02				
	Spurn Head	53	37	48·6	39·7	44·0	- 0·3	24	6	4	0·31	-0·01	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	57	31	51·6	34·9	42·9	- 3·0	36	20	5	0·62	+0·23	34·8	- 0·8	36	- 1
	Yarmouth	53	35	48·6	36·4	42·2	- 2·3	25	16	5	0·74	+0·36	*	*	*	*
	Geldeston	60	30	52·3	33·9	42·7	- 2·7	39	23	4	0·55	+0·20	35·7	- 2·9	37	- 3
	Cambridge	62	32	53·6	36·3	44·5	- 2·2	41	16	5	0·20	-0·15	39·5	+ 2·7	41	+ 3
	Rothamsted	58	34	50·9	37·8	44·0	- 1·6	32	12	5	0·42	-0·04	33·6	- 1·2	35	- 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	31	52·7	36·6	44·3	- 1·6	39	15	5	0·37	-0·01	*	*	*	*
	Loughborough	65	34	54·3	38·4	46·0	0·0	43	10	6	0·41	+0·01	*	*	*	*
	Stamford (Ketton Hall)	62	31	53·9	34·4	43·7	- 2·6	44	21	5	0·33	-0·07	*	*	*	*
	Cheadle ℌ	59	33	50·6	37·3	43·6	- 1·0	31	13	5	0·60	+0·13				
	Shirley (near Solihull)	58	34	51·4	37·6	44·2	- 1·2	34	12	6	0·71	?	*	*	*	*
	Churchstoke ℌ	61	35	53·6	39·3	46·1	+ 1·7	40	8	6	0·40	0·00	30·4	- 3·7	31	- 4
	Hereford ℌ	61	39	54·9	39·6	46·9	+ 0·6	44	7	7	0·44	+0·04	*	*	*	*
	Cirencester	58	36	54·0	38·7	46·0	+ 1·1	42	9	6	0·67	+0·19	36·9	+ 0·9	38	0
	Oxford	59	34	54·3	39·1	46·3	- 0·4	42	8	6	0·45	+0·07	35·7	+ 0·5	37	0
5. ENGLAND, S.	London	60	36	54·1	38·3	45·8	- 2·3	42	10	5	0·28	-0·12	29·0†	- 1·0†	30†	- 1†
	North Foreland	56	37	50·4	39·7	44·8	+ 0·5	29	6	3	0·32	?	*	*	*	*
	Dungeness	61	35	52·6	38·4	45·2	- 1·0	38	10	3	0·16	-0·22	*	*	*	*
	Hastings (St. Leonards)	58	36	52·2	40·2	45·9	- 1·9	35	5	4	0·38	-0·07	26·0	-14·6	27	-15
	Southampton	60	37	55·8	41·3	48·2	+ 0·1	46	2	6	0·46	+0·01	32·3	- 7·7	34	- 8
	Hurst Castle	59	38	54·4	43·6	48·7	+ 1·7	47	0	6	0·38	-0·02	*	*	*	*
	Stowell ℌ	57	37	53·0	40·3	46·4	+ 0·2	38	5	6	0·53	+0·01	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	57	32	50·4	37·8	43·8	- 1·9	30	12	6	0·92	-0·42	*	*	*	*
	Glasgow	54	31	49·5	37·4	43·2	- 1·5	28	13	5	0·77	+0·29	37·6	+ 7·6	38	+ 7
	Ardrossan	53	33	50·4	37·4	43·6	- 2·0	31	13	6	0·88	+0·40	*	*	*	*
	Glenlee ℌ	61	26	51·5	34·7	42·7	- 1·5	36	20	5	1·02	+0·39	*	*	*	*
	Douglas (Isle of Man)	56	37	52·0	39·5	45·5	+ 0·4	35	7	5	0·88	+0·36	49·1	+ 7·1	51	+ 7
7. ENGLAND, N.W.	Stonyhurst	57	34	48·9	37·8	43·1	- 1·8	25	12	5	0·79	+0·24	50·3	+16·5	52	+17
	Blackpool ℌ	57	33	51·1	41·3	46·0	+ 0·3	31	2	5	0·40	+0·02	? 46·5	?+13·5	? 48	? +13
	Manchester (Prestwich)	59	33	51·5	38·4	44·6	- 0·9	33	10	5	0·75	+0·31	40·7	?	42	?
	Liverpool Obsy. (Bidston)	59	39	51·6	41·9	46·5	0·0	32	0	5	0·38	+0·03	*	*	*	*
	Llandudno ℌ	56	39	52·0	42·9	47·2	0·0	36	0	5	0·63	+0·23	*	*	*	*
	Holyhead	57	40	53·0	43·6	48·1	+ 1·3	43	0	5	0·58	+0·16	*	*	*	*
8. ENGLAND, S.W.	Llandovery	64	36	56·7	40·6	48·3	+ 2·6	50	4	7	0·64	+0·05	*	*	*	*
	Pembroke	53	43	50·9	44·9	47·8	+ 1·5	41	0	6	0·49	+0·06	28·6	-14·3	30	-15
	Arlington (N. Devon)	56	36	54·1	42·4	48·0	+ 3·3	42	0	5	1·18	+0·56	*	*	*	*
	Cullompton ℌ	60	39	56·4	42·0	48·9	+ 1·2	48	0	4	0·23	-0·35	29·5	- 7·1	31	- 7
	Falmouth	57	44	53·9	45·3	49·4	+ 1·8	52	0	4	0·24	-0·43	41·9	- 0·7	44	- 1
	Plymouth	58	41	54·6	44·5	49·3	+ 0·8	51	0	6	0·11	-0·41	31·3	- 9·7	33	-10
	Prawle Point	56	39	53·7	43·1	48·2	+ 1·6	43	0	3	0·12	-0·33	*	*	*	*
9. IRELAND, N.	Malin Head	56	34	50·0	41·0	45·3	- 0·4	27	3	4	0·84	?	*	*	*	*
	Londonderry	57	37	52·7	40·6	46·4	- 0·2	37	4	6	0·93	+0·43	*	*	*	*
	Edenfel (Omagh)	55	37	51·6	40·4	45·7	- 0·5	33	4	6	0·84	+0·36	*	*	*	*
	Belmullet	55	40	52·4	43·9	48·0	+ 0·6	42	0	4	0·66	+0·09	*	*	*	*
	Markree Castle	58	40	52·7	43·3	47·8	+ 2·0	41	0	6	0·89	+0·39	23·8	-10·7	25	-11
	Armagh	57	33	53·4	40·6	46·7	+ 1·6	39	4	7	0·49	+0·02	25·2	- 7·8	26	- 8
	Donaghadee	58	35	52·1	38·9	45·2	- 0·5	35	9	6	0·80	+0·36	*	*	*	*
	Edgeworthstown	58	36	53·9	40·2	46·7	+ 1·0	40	5	4	0·60	+0·05	*	*	*	*
10. IRELAND, S.	Dublin	59	39	55·2	44·2	49·4	+ 2·1	52	0	6	0·46	-0·01	34·6	- 4·1	36	- 4
	Parsonstown	57	39	54·6	43·3	48·7	+ 2·5	47	0	5	0·50	+0·02	30·5	- 5·5	31	- 7
	Kilkenny	58	37	55·4	43·4	49·1	+ 2·4	50	0	5	0·21	-0·30	*	*	*	*
	Roche's Point	61	40	55·6	44·9	50·0	+ 2·2	56	0	1	0·01	-0·72	*	*	*	*
	Valencia	56	44	54·3	46·0	50·0	+ 1·5	56	0	5	0·32	-0·55	14·6	-25·3	15	-27
	Killarney												*	*	*	*
	Foynes	?	40	?	44·2	?	?	?	?	4	0·78	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	44	54·6	47·6	50·9	+ 2·4	62	0	3	0·11	-0·39	39·5	?	42	?
	Jersey	56	36	54·4	44·9	49·4	+ 0·1	52	0	6	0·35	-0·10	35·1	-10·4	37	-11

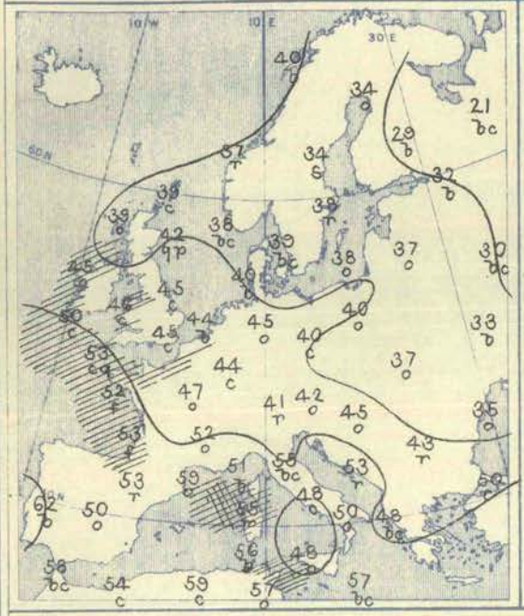
Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

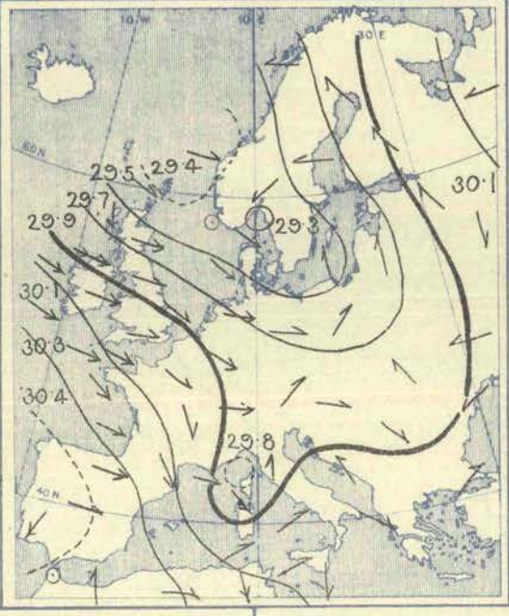
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 12th April.

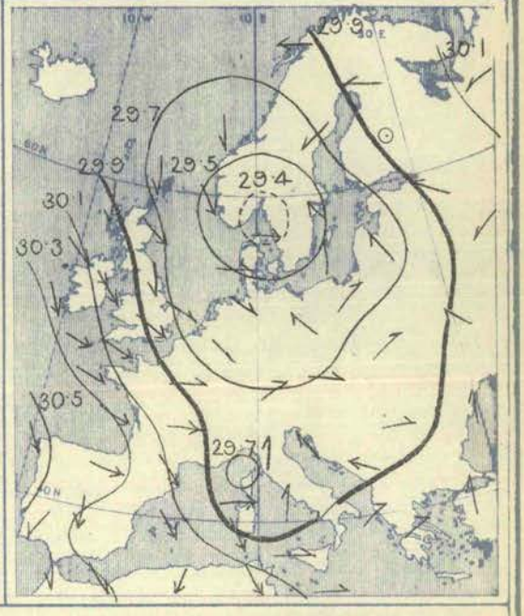
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia on the one hand, and over the extreme south-west of the Iberian Peninsula on the other; very changeable elsewhere, from clear to showery, with hail in the north of Ireland. Showers falling later, of cold rain, hail, or snow at many stations in our Islands, western, north-western, and central Europe; amounts large in the southern parts of France, Switzerland, and Austria.

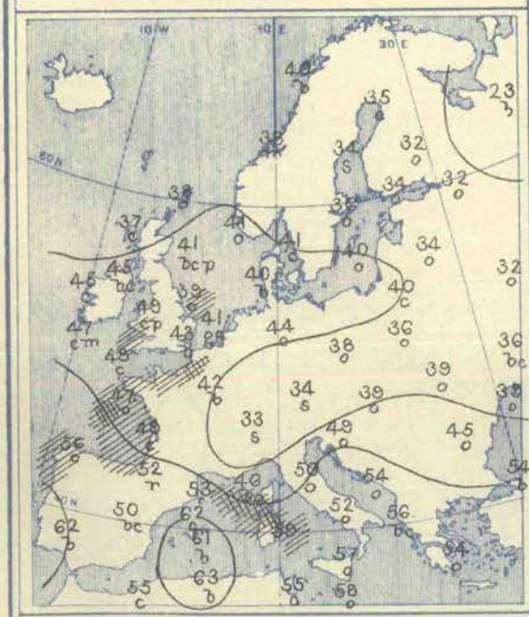
Temperature changing considerably and very irregularly. Morning readings highest, 62° at Lisbon, 59° at Algiers, and above 50° over southern Europe generally, 53° at Scilly, 50° in the south of Ireland. Lowest, 21° at Archangel, 29° at Kuopio and Haparanda, 27° at Kharkov, 30° at Moscow, 37° at Nairn, 39° at Stornoway and Sumburgh Head. Rising later to between 50° and 54° in several parts of our Islands, to 68° at Nice, 66° at Cagliari. Succeeding night very cold over our Islands.

Wind (1) Westerly to North-Westerly strong and squally over our Islands and France; Westerly to South-Westerly moderate to light over Germany, but South-Easterly to Easterly over Russia and northern Europe. A well-marked cyclonic circulation prevalent over the north-eastern parts of the Mediterranean. Rising to a gale in some parts of southern Europe later; becoming more Northerly; very strong and squally over the British Islands.

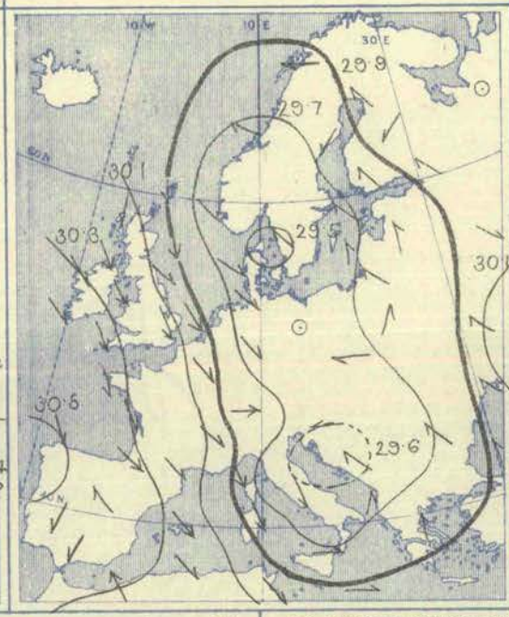
Barometer highest, (1) 30·52 ins. over the Azores, and 30·4 ins. and more to 30·0 ins. over the whole of south-western Europe; (2) 30·1 ins. and more to 30·0 ins. over Russia. Lowest, (1) below 29·4 ins. off the north-west coast of Norway, and about 29·3 ins. to 29·4 ins. in a well-marked secondary over the Skager Rack; (2) below 29·8 ins. in another depression over the northern parts of the Mediterranean. Depression off the north-west of Norway filling up later; barometer rising fast in north and west of the British Islands, making gradients much steeper over the United Kingdom.

Monday, 13th April.

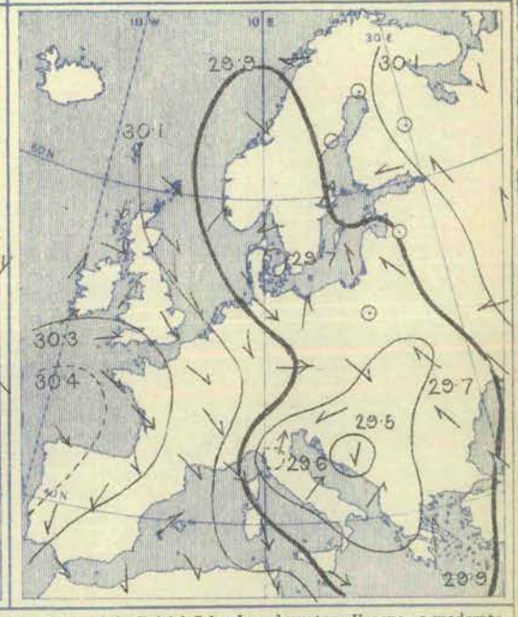
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the extreme north of Europe, several parts of the British Islands, France, Spain, and the southern shores of the Mediterranean; cloudy or overcast elsewhere and unsettled; snow falling in some parts of Sweden, at the Helder, Munich, and Belfort; rain in the east of Scotland, at Wiesbaden and Biarritz. Rain setting in later over Ireland, England, and several parts of France; snow showers at Sumburgh Head, and local showers over Scandinavia.

Temperature fallen somewhat over the British Islands, western and central Europe. Morning readings highest, 63° at Algiers, 62° at Barcelona, Lisbon, and Oporto, and exceeding 50° at the Mediterranean and Adriatic stations generally; above 40° over the British Islands as a whole. Lowest, 23° at Archangel, 30° at Uleaborg and at Kharkov, 32° at Moscow and St. Petersburg, and below 40° over the greater part of central Europe. Rising later to 50° or more over Ireland and England, to 52° at Berlin, 54° or 55° in the west of France, and 59° at Nice. Lisbon reported a maximum of 79°.

Wind (1) North-Westerly over the whole of the British Islands and western Europe—a moderate breeze to a moderate gale in force; (2) Easterly to South-Easterly light to moderate over Russia, the Baltic, and northern Europe; (3) cyclonic circulations found round two depressions—one over Denmark, the Skager Rack, and Categat, the other over the northern parts of the Adriatic and Italy; the North-Westerly wind over the Mediterranean having the force of a gale. Backing to South-West over Ireland later, and freshening somewhat in places.

Barometer highest, 30·5 ins. and more to 30·0 ins. in the eastern part of a large anticyclone spreading in from the Atlantic over Spain, France, and the British Islands, and 30·1 ins. and more to 30·0 ins. over Russia. Lowest, below 29·7 ins. in a large "trough" stretching from Scandinavia across central Europe to Italy, the Adriatic, and Mediterranean, and having in it two distinct minima, one with readings below 29·5 ins. over Denmark and the south-west of Sweden, the other with readings below 29·6 ins. over Dalmatia and the north of Italy. A new disturbance approaching our north-west coasts later and spreading south-eastwards.

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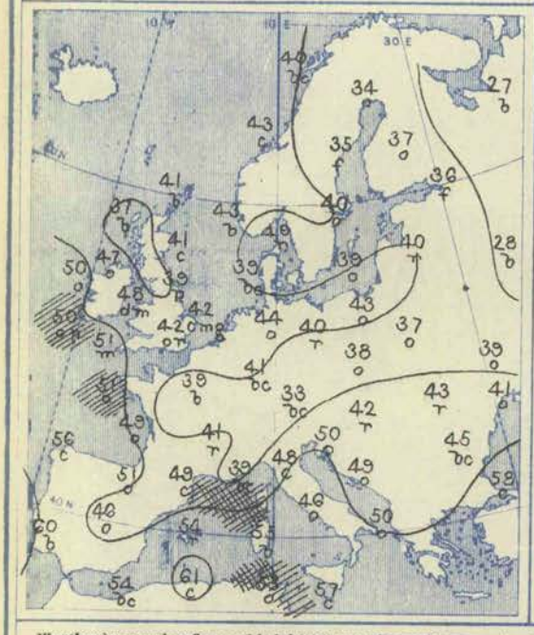
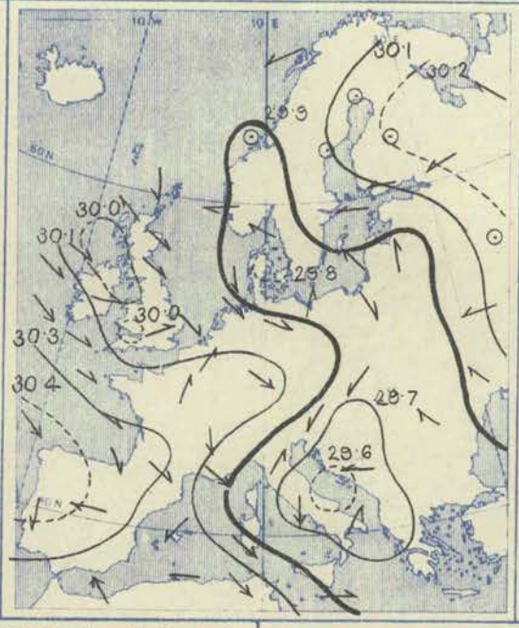
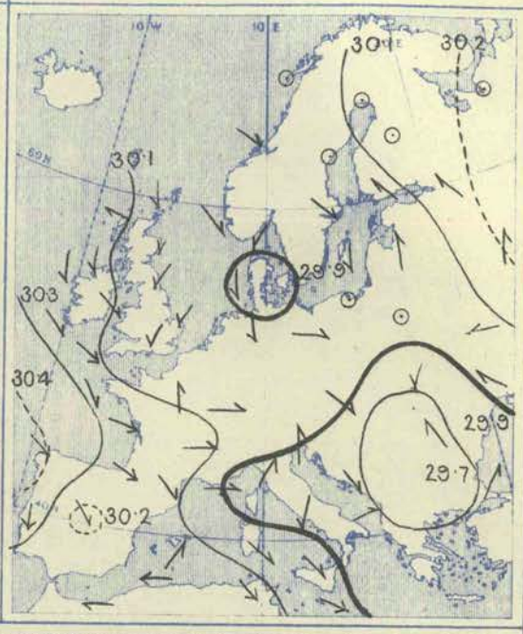
Tuesday, 14th April.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning fine and bright (1) over the northern parts of Russia; (2) over Scotland and the western parts of Norway; (3) over some parts of France and the greater part of the Mediterranean; cloudy and changeable elsewhere, with rain in many parts of Ireland, England, Denmark, and north Germany, as well as at Vienna and Lyons. Showers falling later at most of the English stations, as well as over the North Sea, Germany, and France. Sky clear over the greater part of Scotland.

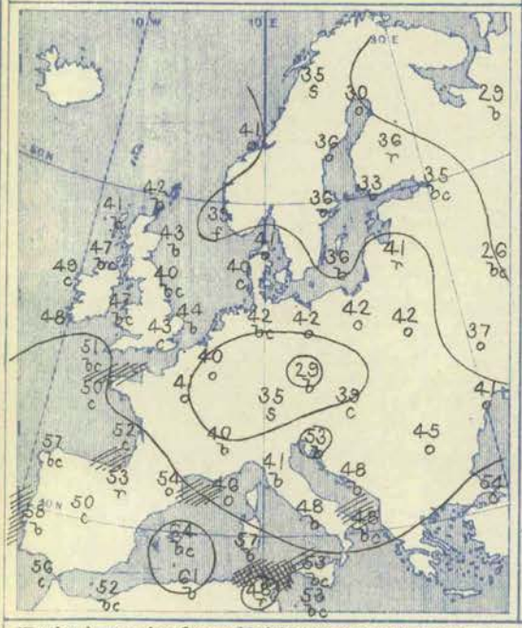
Temperature falling over western Europe generally. Morning readings highest, 61° at Algiers, 60° at Lisbon, 58° at Athens and Constantinople; exceeding 50° at nearly all the coast stations of southern Europe, as well as in the extreme south-west and west of our Islands. Lowest, 27° at Archangel, 28° at Moscow, 37° at Warsaw and also at Stornoway, 39° at Nairn and at Paris, 32° at Lyons, 33° at Munich. Rising later to between 52° and 57° over the greater part of Ireland and England, to 61° at Nice; not exceeding 47° at Paris, or 50° at Berlin. Frost at night over our own inland districts.

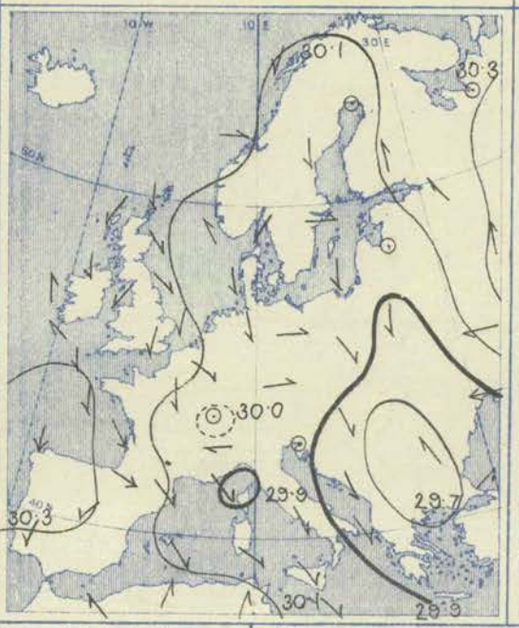
Wind as a whole Easterly and South-Easterly over Russia, Finland, and Sweden; North-Westerly to South-Westerly over the British Isles and western Europe, but with considerable local variations over England. Strong Northerly winds still prevailing over the northern parts of the Mediterranean and in Tunis, but light Southerly breezes over Greece and Turkey. Becoming more Northerly or North-Easterly over the United Kingdom later.

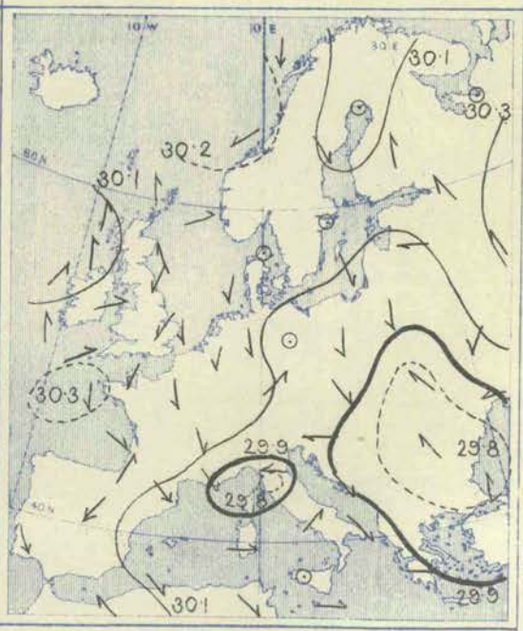
Barometer highest, (1) 30·47 ins. over the Azores, and 30·4 ins. to 30·1 ins. over south-western Europe, France, and the south-west of the British Isles; (2) 30·2 ins. and more to 30·1 ins. over Russia. Lowest, 29·6 ins. and less in a well-marked depression lying over Italy and Dalmatia; 29·8 ins. and less in another over the Danish Archipelago, and below 30·0 ins. in some shallow secondaries over the north-western and western parts of the United Kingdom. Latter systems partially filling up later and moving south-eastwards.

Wednesday, 15th April.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning fine and bright (1) over the Mediterranean, Portugal, the west of France, and Great Britain; (2) over Russia as a whole; cloudy or overcast elsewhere, with rain in the west of Norway, and over many parts of Germany; snow at Belfort and Munich. Rain falling during the day over southern Europe, and a separate fall setting in later over the western parts of our Islands, and spreading north-eastwards to Scotland and the northern parts of England.

Temperature in morning highest, 64° at Palma, 61° at Algiers, 58° at Barcelona, and exceeding 50° on the Portuguese coast, as well as at Scilly and the Channel Islands. Lowest, (1) 26° at Moscow, 29° at Kharkov and Archangel, 30° at Haparanda; (2) 29° at Prague, 32° at Munich, 35° at Belfort. Rising later to between 50° and 57° over most parts of our Islands, to 61° at Lorient, and 64° at Perpignan.

Wind rather strong over the Bay of Biscay; moderate to light elsewhere; (1) Easterly and South-Easterly over Russia and Finland; (2) Northerly and North-Westerly over western Europe; very variable over Scotland and Ireland. Two definite cyclonic circulations found—one over south-eastern Europe, the other over Corsica and the Gulf of Genoa. South-Easterly to Southerly winds setting in on our western coasts later, freshening and spreading northwards and eastwards.

Barometer highest, (1) 30·43 ins. at Ponta Delgada, and ranging from 30·30 ins. and more to 30·20 ins. in an irregularly formed "ridge" stretching from Spain, the Bay of Biscay, and the west of France over the western half of the British Islands; (2) 30·3 ins. and more to 30·1 ins. over Russia. Lowest, below 29·7 ins. in a depression over south-eastern Europe; below 29·9 ins. in another over Corsica, and below 30·0 ins. in a very shallow one near Belfort. Very slight local disturbance over the North Sea and our north-eastern counties. Barometer falling at our western and northern stations later, owing to advance of new depression towards our north-western coasts.

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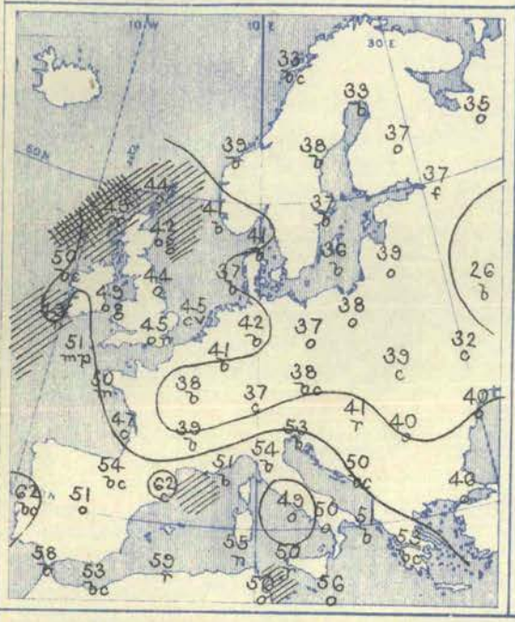
Thursday, 16th April.

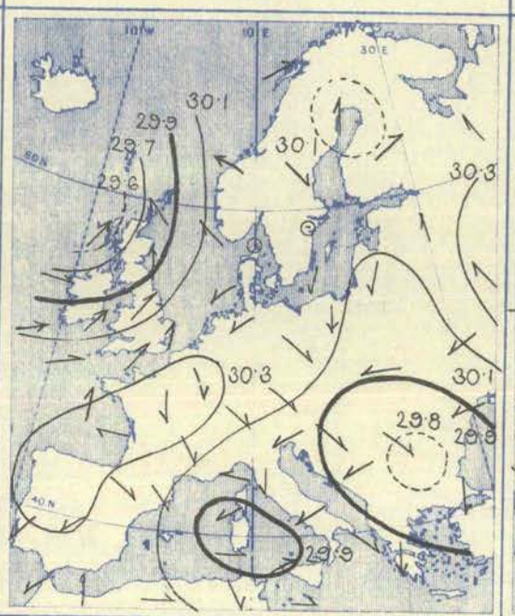
Temperature and Weather.

8 a.m.

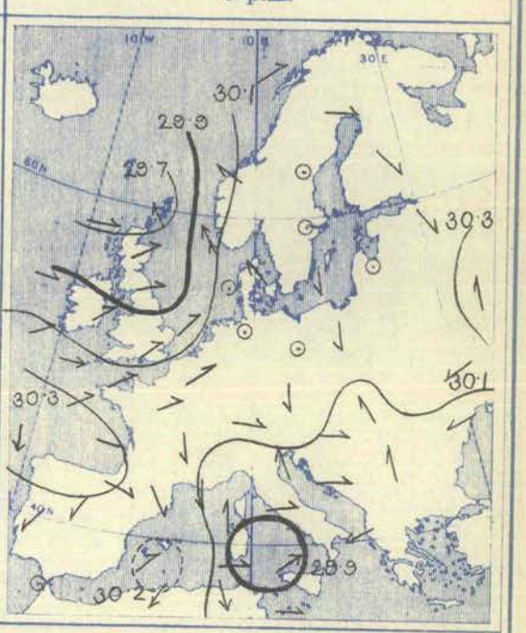


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy to overcast over the British Islands, with rain in several places; fine over the Continent as a whole, and in many places clear and bright; unsettled over the Mediterranean, and very rainy at stations on the southern shores. Rain falling later over our Islands and the north and west of France generally, but amounts not large; sky clearing in west subsequently.

Temperature in morning highest, 66° at Oporto, 62° at Lisbon and Barcelona, and exceeding 50° at most of the Mediterranean stations, as well as at several places in the west of the British Islands. Lowest, 26° at Moscow, 32° to 38° over Russia and central Europe, 40° at Hermanstadt. Rising later to between 50° and 58° in our Islands and the northern half of France, and to 63° in the south-west and south of France. Succeeding night cold over England.

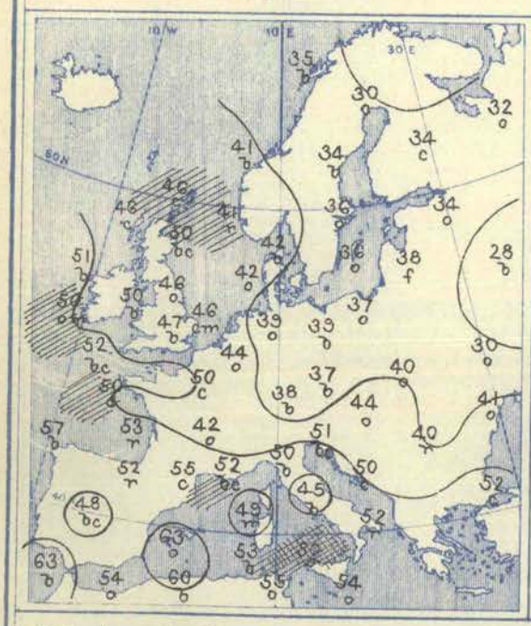
Wind (1) light and anticyclonic over western and northern Europe as a whole; (2) West-South-Westerly to Southerly (cyclonic) over the British Isles, and blowing strongly from South at several of our northern stations; (3) two cyclonic circulations of light to moderate winds—one over south-eastern Europe, the other over Sardinia and neighbouring regions. Becoming Westerly over nearly the whole of our Islands later, and blowing a gale from South-South-East in the west of Norway.

Barometer highest, 30·3 ins. and more to 30·2 ins. in a system of rather irregular form stretching from the Atlantic across Spain, France, and the eastern shores of the North Sea to Scandinavia. Lowest, (1) below 29·6 ins. in a depression lying off the north-west of Scotland (gradients rather steep over the United Kingdom); (2) below 30·0 ins. over south-eastern Europe and the Mediterranean generally, and rather below 29·8 ins. in two minima—one over Sardinia, the other over eastern Roumelia. Depression over northern regions moving north-eastwards later, and a "secondary" beginning to form over England.

Friday, 17th April.

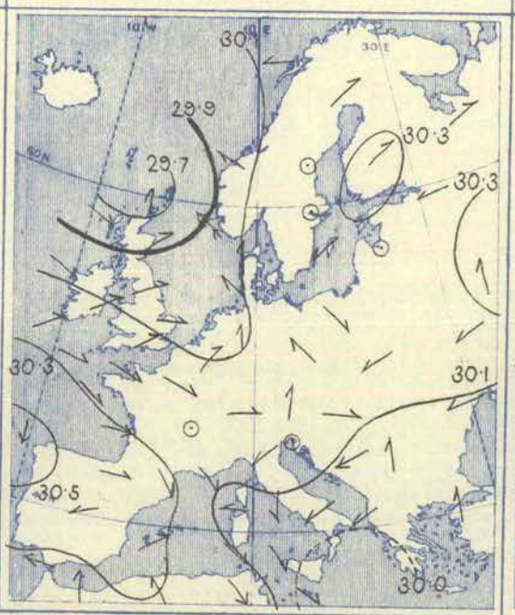
Temperature and Weather.

8 a.m.

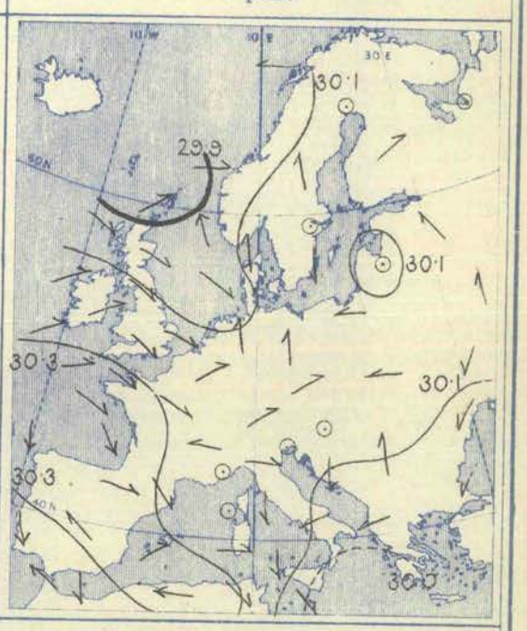


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of the Mediterranean, the Iberian Peninsula, and many parts of our Islands, northern and eastern Europe; cloudy or overcast elsewhere, with rain locally in several parts of France, Germany, and Hungary, and also at Brindisi. Rain falling later in small quantities at many stations both over the British Islands and the Continent; solar halos observed in several places, and parhelia at Oxford, but sky very clear at the Swedish stations and in the west of France.

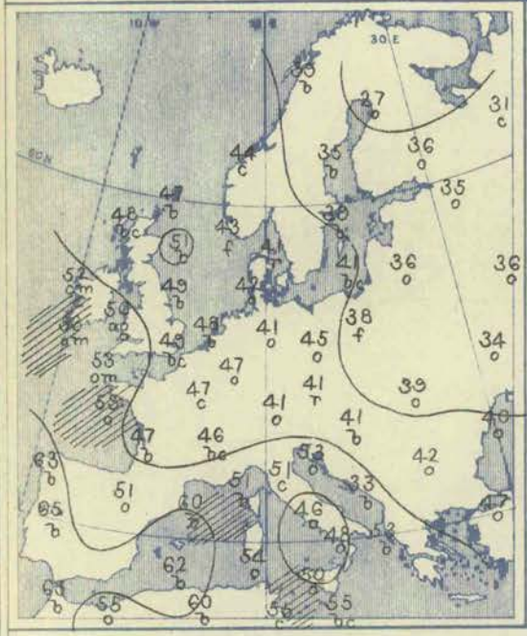
Temperature in morning highest, 68° at Oporto, 63° at San Fernando and Palma, 60° at Algiers; above 50° on the Mediterranean coasts generally, and the extreme west and south-west of our Islands. Lowest, 28° at Moscow, and 30° to 35° over northern Russia, Finland, and the north of Scandinavia; 37° at Prague, Belfort, and Pesaro, 40° at Florence and Wiesbaden. Rising later to between 57° and 61° in many parts of our Islands, to 61° at Paris and Nice, 66° at Brindisi, 68° at Oran, 75° at San Fernando, and 79° at Lisbon and Oporto.

Wind (1) light to fresh from the Westward (West-South-West to West-North-West); North-Westerly over France; (2) South-Easterly and Southerly on the eastern shores of the North Sea; Easterly in the north-west of Norway; (3) chiefly North-Easterly to North-Westerly over the eastern half of the Mediterranean, and extremely light and variable over central and eastern Europe. Falling lighter over the United Kingdom during day, and backing to South-West in the west of Ireland.

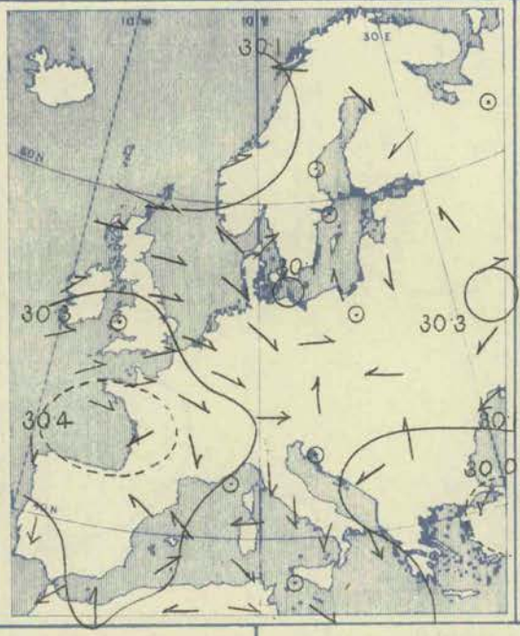
Barometer highest, 30·5 ins. and more to 30·2 ins. over the Peninsula, the Bay of Biscay, and France; 30·3 ins. and more to 30·2 ins. over Russia, Finland, and the Baltic. Lowest, (1) 29·7 ins. and less in a depression having its centre off the north of Scotland, and below 30·0 ins. in a "V" over the North Sea; (2) about 29·9 ins. in a depression lying somewhat to the eastward of Sicily. Rising all day over the British Isles, the North Sea, and France; falling slightly over the north of Scandinavia, and also over the Azores and at Lisbon.

Saturday, 18th April.

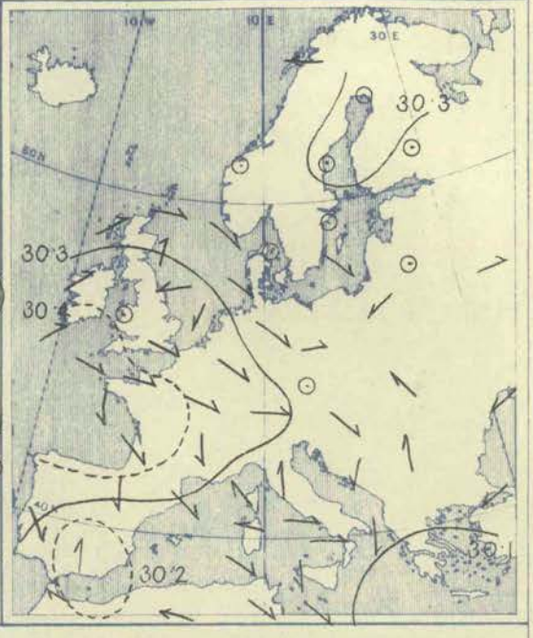
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair as a whole over the British Islands, France, and Spain; clear in many places, cloudy or overcast in others, and a little misty drizzle falling over some parts of our southern counties and the Channel Islands; fine and bright over Sweden and Finland also. Dull and unsettled over central Europe and the eastern shores of the North Sea, with rain in many places, fog in others. Very slight rain later over the north of Scotland, and several parts of northern and central Europe, wet mists at some of our southern stations.

Temperature inclined to rise a little in many places. Morning readings highest, 71° to 63° on the Portuguese coast, 60° at Algiers, and above 50° at many of the Mediterranean stations, and in many parts of the United Kingdom. Lowest, 27° at Uleaborg, 31° at Archangel, 35° at Helsingfors, 36° at Kuopio, Riga, and Moscow, 32° at Kharkov, 34° at Kiev, rising during day to between 60° and 65° in many parts of Great Britain and France, to 67° at Perpignan, and to 79° at Lisbon.

Wind light over Europe generally, and in most places anticyclonic. South-Westerly to North Westerly over our Islands; North-Westerly to North-Easterly over France; Easterly over the Iberian Peninsula. Chiefly South-Easterly over central Europe, the Baltic, and southern half of Sweden; extremely variable elsewhere. No great change later.

Barometer highest, 30·4 ins. and more over the Bay of Biscay and west of France, and exceeding 30·2 ins. all over the United Kingdom, France, south Germany, and the greater part of Russia; anticyclonic over the western countries; very variable in the north and east; gradients very slight. Lowest, below 30·1 ins. over the Shetland Isles and west of Norway, as well as over south-eastern Europe. Rising throughout our Islands during day, but inclined to fall over Portugal.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the barometer was highest in an anticyclone which extended from the Atlantic over Spain and the Bay of Biscay, but high also in another system lying over northern Russia. Over north-western Europe the weather was influenced for the most part by a complex depression which moved south-eastwards across the south of Scandinavia, and which occasioned very strong winds from the North-Westward or Northward in our Islands, with squalls of cold rain, hail, or sleet. In the southern countries the conditions were affected by a small depression which moved eastwards from the Gulf of Genoa across Italy and the Adriatic, and which produced heavy rain on the 12th in the southern parts of France, Switzerland, and Austria.

On the 13th and 14th the Scandinavian depression gradually filled up, and a temporary improvement in the weather took place over the western and northern countries generally. On the 16th, however, a new disturbance skirted the north-west and north of Scotland, and occasioned strong Southerly winds on our northern coasts, while a "V" shaped secondary was developed to the southward of the main system, the weather being unsettled and rainy over the north-western countries generally. A depression was at the same time formed over the central parts of the Mediterranean, the latter occasioning further heavy falls of rain in some parts of southern Europe.

Towards the close of the week, the depressions all travelled away to the eastward or north-eastward, while the anticyclone over the Bay of Biscay spread eastwards until it became united with the high-pressure system over Russia. A gradual improvement in the weather was, therefore, reported over nearly the whole of Europe, with an increase of temperature in most places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	30·8	+ 2·3	31	+ 2	SOUTHPORT	42·1*	?	43*	?
OSWALDKIRK (Yorkshire)	37·0	+ 3·9	38	+ 5	MANCHESTER (Oldham Road)	30·8*	?	32*	?
WORKSOP	39·9	+ 9·9	41	+ 10	COLWYN BAY	44·8	?	46	?
THURCASTON (Leicestershire)	40·5	+ 9·5	42	+ 10	TENBY	29·5*	- 16·0	31*	- 17
MARGATE	28·9	- 6·9	30	- 7	NEWQUAY	33·6	- 8·1	35	- 8
WESTBOURNE (Sussex)	31·0*	- 11·6	32*	- 13	TORQUAY	23·6*	- 18·6	25*	- 19
BRIGHTON	33·1	- 8·1	34	- 9	ARLEY COTTAGE (County Cavan)	20·1	- 11·7	21	- 12
EASTBOURNE	31·9	- 9·4	33	- 9	GUERNSEY	34·0*	- 11·6	36*	- 12

The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 17.] *Third Series.* WEEK ENDING SATURDAY, APRIL 25TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 98.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	33	55·0	42·6	48·5	4 above	46	+17	0	−15	280	+ 91	296	−289
	1. SCOTLAND, EAST	69	28	60·2	41·2	50·3	6 above	61	+25	2	−13	361	+112	400	−219
	2. ENGLAND, N.E.	67	36	57·6	41·8	49·3	4 above	52	+19	1	− 9	357	+115	325	−205
	3. ENGLAND, EAST	67	28	58·1	37·7	47·4	1 above	56	+ 9	12	+ 1	392	+ 77	377	−218
	4. MIDLAND COUNTIES	69	28	60·9	39·1	49·4	3 above	64	+16	8	− 4	447	+105	357	−240
	5. ENGLAND, SOUTH	67	32	57·7	41·0	48·9	1 above	53	+ 2	3	− 2	454	+ 97	237	−233
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	31	57·9	43·3	50·2	4 above	57	+18	0	− 9	387	+120	230	−213
	7. ENGLAND, N.W.	65	35	58·2	43·0	50·2	3 above	57	+16	0	− 7	410	+139	201	−242
	8. ENGLAND, S.W.	66	32	58·8	42·4	50·2	2 above	57	+10	0	− 5	515	+136	155	−199
	9. IRELAND, NORTH	69	33	59·0	43·6	50·9	4 above	62	+19	0	− 7	487	+151	157	−225
	10. IRELAND, SOUTH	66	31	60·2	41·6	50·5	2 above	61	+13	1	− 4	623	+182	88	−203
	—CHANNEL ISLANDS	62	38	57·2	46·1	51·4	2 above	66	+14	0	0	692	+223	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 98.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	2	4 less	89	+ 9	21·1	+ 3·7	23	−11	22	−12	224	− 62	18	− 5
	1. SCOTLAND, EAST	2	1	3 less	63	0	6·0	− 3·3	39	+ 5	38	+ 4	347	+ 13	28	+ 1
	2. ENGLAND, N.E.	2	1	3 less	51	−10	4·6*	− 2·6	35	+ 2	35	+ 3	321	− 10	26	0
	3 ENGLAND, EAST	1	less than ½	3 less	61	+ 1	6·1	− 0·8	49	+11	50	+11	335	− 44	27	− 3
	4. MIDLAND COUNTIES	1	less than ½	4 less	57	0	5·3	− 2·6	39	+ 3	40	+ 4	313	− 33	25	− 2
	5. ENGLAND, SOUTH	1	less than ½	4 less	53	− 3	5·0	− 3·6	43	+ 2	43	+ 2	320	− 73	25	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	5 less	72	+ 4	14·0	− 2·4	33	− 5	32	− 6	293	− 45	24	− 3
	7. ENGLAND, N.W.	1	1	3 less	65	+ 3	9·5*	− 0·1	41	+ 4	41	+ 3	277	− 18	25	− 2
	8. ENGLAND, S.W.	1	1	4 less	60	− 3	7·8	− 4·3	52	+ 8	53	+ 9	356	− 73	28	− 6
	9. IRELAND, NORTH	2	1	3 less	71	− 1	10·9	− 0·5	39	+ 4	39	+ 4	263	− 68	21	− 5
	10. IRELAND, SOUTH	1	1	5 less	63	− 3	9·8	− 2·9	48	+ 8	48	+ 8	301	− 93	24	− 7
	—CHANNEL ISLANDS	1	less than ½	4 less	63	− 6	5·3	− 5·3	57	+ 7	58	+ 7	423	− 55	33	− 4

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was fair and dry during the greater part of the week, the only rain experienced being some showers over our eastern districts on the 22nd or 23rd, and slight falls in most parts of the Kingdom towards the end of the period.

Temperature was above the mean in all districts, the excess ranging from 1° in England E. and S., to 4° in Scotland N. and W., Ireland N., and England N.E., and to 6° in Scotland E. The highest of the maxima were recorded during the earlier or middle part of the week, and varied from 69° in Scotland E., the Midland counties, and Ireland N., to 63° in Scotland W., and 62° in the Channel Islands. The absolute minima were rather low for the time of year, ranging from 28° in Scotland E., England E., and the Midland counties, to 36° in England N.E., and to 38° in the Channel Islands. The diurnal range of temperature was large over all the more inland parts of the Kingdom.

Rainfall was extremely slight, and much less than the mean in all districts.

Bright Sunshine was deficient in Scotland N. and W., but was fairly abundant, and exceeded the mean, in all other districts. The percentage of the possible duration ranged from 58 in the Channel Islands, 53 in England S.W. and 50 in England E., to 33 in Scotland W., and to 22 in Scotland N.

Barometer and Wind.—The distribution of pressure over our Islands was mainly anticyclonic. The only depressions to approach our immediate neighbourhood were some small secondary systems which moved down our eastern coasts on the 22nd and 23rd, and some larger disturbances which appeared off our northern coasts towards the end of the week. The winds were light or moderate in force, but varied a good deal in direction. They were, however, chiefly South-Westerly and Westerly in the north, and North-Easterly and Easterly in the south during the first part of the week, shifting subsequently to the Northward in all districts, and finally becoming Westerly to South-Westerly.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	54	34	50·1	41·7	45·7	+ 3·6	27	1	3	0·08	−0·33	*	*	*	*
	Stornoway	59	37	54·7	44·1	49·2	+ 5·2	50	0	2	0·11	−0·43	18·3	−20·3	18	−20
	Wick	63	36	55·3	41·0	47·8	+ 4·0	45	3	3	0·13	−0·27	*	*	*	*
	Glencarron ℛ	60	33	55·5	41·9	48·4	+ 4·1	45	0	3	0·45	−0·43	*	*	*	*
	Fort Augustus ℛ	64	33	59·1	42·5	50·4	+ 4·4	59	0	3	0·08	−0·42	25·2	− 2·2	25	− 3
	Fort William ℛ	60	37	55·2	44·6	49·7	+ 3·2	54	0	3	0·27	−0·52	24·5	−10·8	24	−11
1. SCOTLAND, E.	Nairn	62	30	59·6	41·9	50·3	+ 5·2	59	0	3	0·21	−0·08	*	*	*	*
	Aberdeen	60	31	56·0	40·7	48·0	+ 3·5	47	4	2	0·11	−0·33	39·7	+ 2·1	39	+ 3
	Braemar ℛ	63	28	57·6	38·3	47·5	+ 5·8	54	10	2	0·35	−0·17	39·7†	+ 6·5†	39†	+ 6†
	Ochtertyre ℛ	69	31	63·9	41·4	52·1	+ 6·9	73	2	2	0·03	−0·44	*	*	*	*
	Leith	67	38	63·6	43·1	52·9	+ 7·1	76	0	0	—	−0·30	*	*	*	*
	Marchmont ℛ	65	34	60·4	41·9	50·7	+ 6·4	61	0	2	0·10	−0·39	41·5	+ 6·5	41	+ 6
2. ENGLAND, N.E.	Alnwick Castle	62	37	57·3	43·4	50·0	+ 6·3	56	0	1	0·05	−0·39	*	*	*	*
	Durham	67	36	60·2	40·0	49·6	+ 5·1	62	6	2	0·08	−0·30	27·8	− 2·8	28	− 1
	Shields	64	39	57·7	42·6	49·8	+ 5·2	55	0	1	0·03	−0·35	*	*	*	*
	Scarborough ℛ	63	36	56·1	40·9	48·1	+ 2·8	47	3	2	0·06	−0·34	*	*	*	*
	York	66	37	61·0	40·7	50·4	+ 3·8	64	4	2	0·04	−0·33				
	Spurn Head	60	40	53·4	43·1	48·0	+ 2·9	42	0	2	0·02	−0·28	*	*	*	*
3. ENGLAND, E.	Hillington ℛ	65	31	59·4	37·0	47·7	+ 0·9	61	14	2	0·07	−0·29	53·2	+14·7	53	+14
	Yarmouth	62	38	52·7	41·6	46·9	+ 1·5	36	1	2	0·05	−0·30	*	*	*	*
	Geldeston	66	28	57·9	36·9	46·9	+ 0·5	56	14	0	—	−0·30	54·0	+13·8	55	+14
	Cambridge	67	30	60·9	36·9	48·3	+ 0·4	66	14	1	0·02	−0·33	43·5	+ 4·7	44	+ 6
	Rothamsted	64	30	59·4	36·2	47·2	+ 0·3	61	16	1	0·02	−0·45	45·7	+ 9·7	46	+10
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	64	33	61·6	39·6	50·1	+ 3·0	67	7	1	0·03	−0·29	*	*	*	*
	Loughborough	66	32	62·3	38·9	50·0	+ 2·3	69	9	0	—	−0·36	*	*	*	*
	Stamford (Ketton Hall)	69	28	61·0	35·7	47·7	+ 0·3	66	18	1	0·04	−0·33	*	*	*	*
	Cheadle ℛ	62	36	58·6	41·4	49·6	+ 4·0	56	2	1	0·02	−0·40	*	*	*	*
	Shirley (near Solihull)	63	31	59·3	38·0	48·1	+ 1·4	60	11	1	0·01	?	*	*	*	*
	Churchstoke ℛ															
	Hereford ℛ	67	32	63·1	40·1	51·1	+ 3·7	72	5	1	0·06	−0·32	*	*	*	*
	Cirencester	64	30	59·9	38·7	48·8	+ 2·4	61	9	0	—	−0·42	39·1	+ 0·5	39	0
	Oxford	65	34	61·0	40·3	50·2	+ 2·6	65	5	0	—	−0·36	35·7	− 1·6	36	− 2
5. ENGLAND, S.	London	66	33	60·9	39·7	49·8	+ 0·4	64	6	1	0·01	−0·38	32·4†	+ 0·5†	33†	+ 1†
	North Foreland	62	39	54·6	42·0	48·0	+ 2·7	42	0	2	0·05	?	*	*	*	*
	Dungeness	56	32	53·0	40·1	46·2	− 1·3	37	5	1	0·01	−0·33	*	*	*	*
	Hastings (St. Leonards)	59	37	56·0	40·3	47·8	− 0·6	48	5	0	—	−0·40	44·3	+ 1·3	45	+ 2
	Southampton	67	35	62·3	41·1	51·2	+ 1·7	68	3	0	—	−0·40	39·0	− 2·9	39	− 4
	Hurst Castle	61	37	58·1	43·7	50·6	+ 2·8	60	0	1	0·01	−0·34	*	*	*	*
	Stowell ℛ	61	35	58·7	40·2	49·0	+ 0·6	57	5	2	0·05	−0·43	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	40	57·5	44·6	50·7	+ 3·9	61	0	1	0·12	−0·67	*	*	*	*
	Glasgow	63	38	58·3	44·6	51·1	+ 5·4	64	0	1	0·04	−0·35	30·8	− 1·1	30	− 2
	Ardrossan	60	40	55·7	45·9	50·6	+ 3·8	60	0	1	0·04	−0·36	*	*	*	*
	Glenlee ℛ	63	31	60·2	39·1	49·2	+ 3·5	63	8	1	0·02	−0·51	*	*	*	*
	Douglas (Isle of Man)	60	36	57·6	42·3	49·6	+ 3·2	53	0	1	0·02	−0·43	35·9	− 8·4	36	− 9
7. ENGLAND, N.W.	Stonyhurst	60	36	57·9	40·5	48·8	+ 2·9	54	4	1	0·25	−0·23	38·2	+ 2·2	38	+ 2
	Blackpool ℛ	61	35	58·5	41·7	49·7	+ 3·0	55	1	1	0·09	−0·21	41·0	+ 5·5	41	+ 4
	Manchester (Prestwich)	63	35	58·9	40·0	49·0	+ 2·7	57	6	1	0·06	−0·32	31·2	?	31	?
	Liverpool Obsy. (Bidston)	65	41	58·6	44·7	51·3	+ 3·5	65	0	1	0·05	−0·25	*	*	*	*
	Llandudno ℛ	64	43	59·1	45·8	52·1	+ 4·1	71	0	0	—	−0·37	*	*	*	*
	Holyhead	58	44	56·0	45·1	50·3	+ 3·0	58	0	1	0·01	−0·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	66	32	63·6	38·4	50·4	+ 3·4	74	10	1	0·03	−0·47	*	*	*	*
	Pembroke	59	42	54·4	44·7	49·3	+ 2·3	51	0	1	0·11	−0·27	53·1	+ 8·1	54	+ 9
	Arlington (N. Devon)	62	35	59·7	41·9	50·4	+ 3·9	59	0	1	0·17	−0·38	*	*	*	*
	Cullompton ℛ	66	32	61·9	38·3	45·5	+ 0·2	68	10	1	0·08	−0·52	47·4	+ 9·4	48	+ 9
	Falmouth	61	41	57·7	45·3	51·2	+ 3·0	64	0	1	0·02	−0·66	58·7	+13·8	60	+14
	Plymouth	62	39	58·6	43·5	50·7	+ 1·5	61	0	1	0·09	−0·39	49·2	+ 6·2	50	+ 6
	Prawle Point	59	42	56·0	44·6	50·0	+ 2·6	56	0	1	0·05	−0·55	*	*	*	*
9. IRELAND, N.	Malin Head	56	44	53·7	46·4	49·9	+ 3·2	55	0	3	0·23	?	*	*	*	*
	Londonderry	69	41	63·0	43·6	52·8	+ 5·1	76	0	3	0·09	−0·33	*	*	*	*
	Edenfel (Omagh)	64	37	59·1	41·9	50·1	+ 2·4	57	0	2	0·10	−0·33	*	*	*	*
	Belmullet	62	42	57·1	47·1	51·9	+ 3·2	69	0	2	0·14	−0·36	*	*	*	*
	Markree Castle	65	33	61·2	40·8	50·5	+ 3·8	65	3	2	0·06	−0·37	38·7	+ 1·9	38	+ 1
	Armagh	64	38	59·3	43·8	51·2	+ 4·9	64	0	2	0·14	−0·35	38·5	+ 3·5	38	+ 3
	Donaghadee	63	38	59·0	44·1	51·2	+ 4·9	64	0	2	0·04	−0·54	*	*	*	*
	Edgeworthstown	65	39	59·3	40·9	49·7	+ 2·6	59	3	1	0·14	−0·38	*	*	*	*
10. IRELAND, S.	Dublin	65	42	61·5	45·1	52·9	+ 4·2	76	0	1	0·01	−0·44	46·4	+ 5·4	46	+ 5
	Parsonstown	66	37	61·9	40·4	50·6	+ 3·6	67	4	1	0·03	−0·42	46·1	+ 8·3	46	+ 8
	Kilkenny	65	35	61·1	39·6	49·8	+ 1·8	65	7	2	0·07	−0·41	*	*	*	*
	Roche's Point	59	40	57·0	43·1	49·7	+ 0·9	54	0	1	0·10	−0·62	*	*	*	*
	Valencia	62	36	58·1	41·1	49·2	+ 0·2	54	3	2	0·20	−0·68	51·3	+ 9·5	52	+10
	Killarney	66	31	61·7	38·8	49·7	+ 1·5	67	9	2	0·17	?	*	*	*	*
	Foynes	64	37	60·0	43·3	51·3	+ 3·4	65	0	1	0·07	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	46	56·1	48·1	51·9	+ 2·9	69	0	1	0·01	−0·44	60·9	?	62	?
	Jersey	62	38	58·3	44·1	50·9	+ 0·7	62	0	1	0·02	−0·38	52·1	+ 4·2	53	+ 4

Stations marked ℛ are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

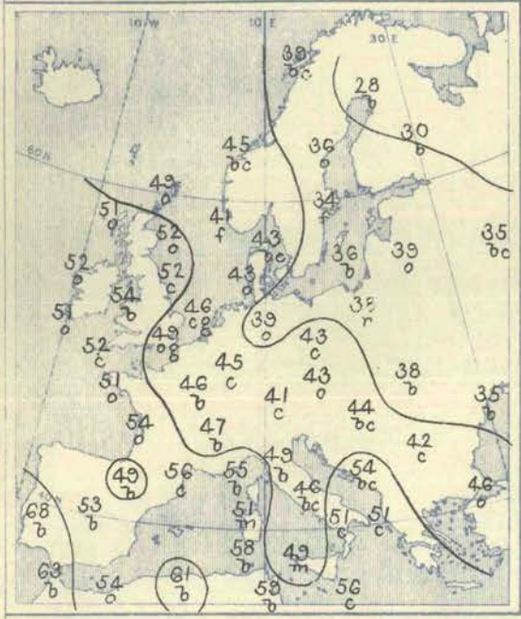
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 19th April.

Temperature and Weather.

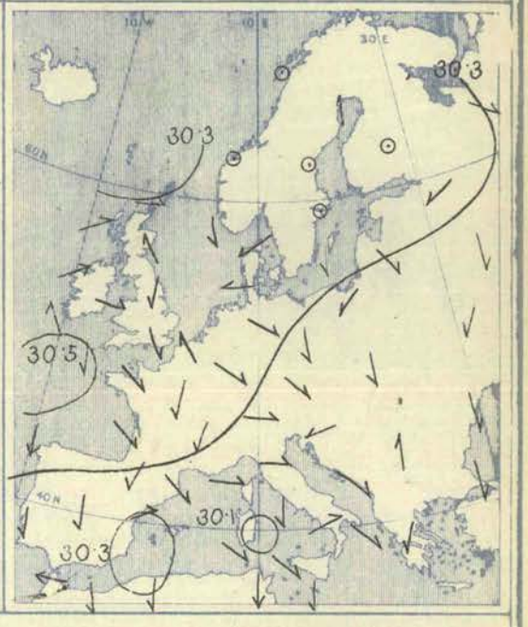
8 a.m.



Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy over our Islands generally, with fog on the Kentish coasts, as well as at Cape Gris Nez and Jersey. Fine over the greater part of the Continent, but dull in the more central countries, with rain at Breslau and Neufahrwasser. Sky clearing later in many parts of the United Kingdom, but showers falling at some of our northern stations; rain falling also in several parts of Germany, Austria, and the Netherlands.

Temperature changed little and irregularly. Morning readings highest, 72° at Oporto, 68° at Lisbon, 63° at San Fernando, 61° at Algiers, and 60° at Bilbao; above 55° at most of the Mediterranean and Spanish coast stations, and above 50° in many parts of the United Kingdom. Lowest, 28° at Haparanda, 30° at Kuopio, 32° at Uleaborg, 33° at Helsingfors, and 34° at Stockholm. Rising during day to 60° and upwards in many parts of Great Britain, and reaching 65° at Oxford; exceeding 70° over the Spanish Peninsula and the extreme south of France, and reaching 84° at Oporto, and 79° at Lisbon and Madrid.

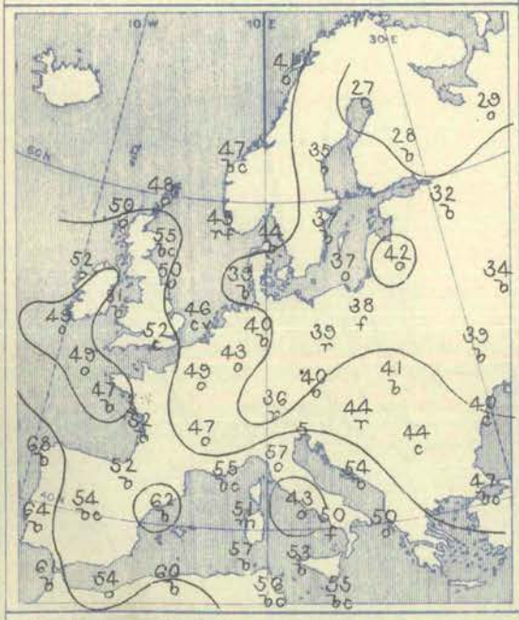
Wind light from the Westward or North-Westward over the greater part of our Islands, as well as over Denmark, the Netherlands, Germany, and Austria, but Southerly or South-Westerly on our own extreme north-west coasts. Light to moderate from the North-Eastward or Eastward over the west of France and the Spanish Peninsula; variable in Italy. Calm or variable over Scandinavia and northern Russia. Subsequently backing to the Southward in the eastern parts of Ireland and Scotland; light North-Easterly winds setting in over Denmark and the Baltic.

Barometer highest, 30·5 ins. and upwards in the south-west of our Islands and the north-western and central parts of France; 30·3 ins. and upwards over all the more western and northern parts of Europe. Lowest, 30·1 ins. and less (apparently) in a shallow area lying to the southward of Italy. No important change occurring during day.

Monday, 20th April.

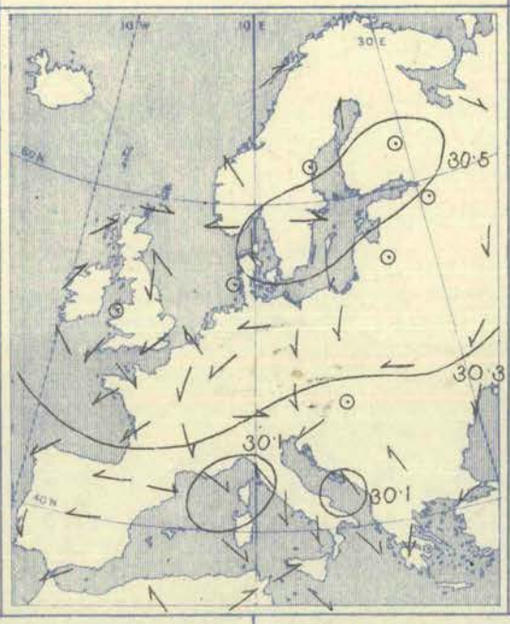
Temperature and Weather.

8 a.m.

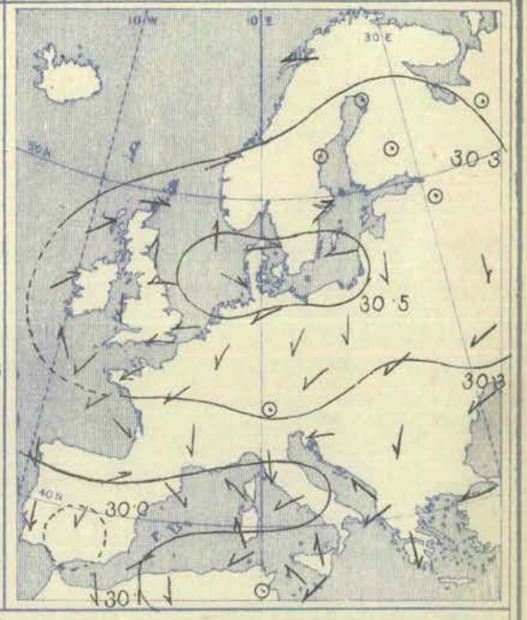


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at some of our south-western stations, but dull over the United Kingdom generally, with rain at Donaghadee. Fine in Denmark and central Russia, as well as in Spain and the west and south of France; cloudy in most other parts of the Continent, with rain at several of the German and Austrian stations, as well as at Skudesnaes. Sky clearing later in most parts of England and Ireland. Heavy rain falling in some parts of Austria and northern Italy—as much as 1·3 ins. at Florence.

Temperature changed very irregularly. Morning readings highest, 76° at Oporto, 68° at Corunna, 64° at Lisbon, and 62° at Bilbao and Barcelona; above 55° at many of the Mediterranean and Spanish coast stations, and above 50° in most parts of the United Kingdom. Lowest, 27° at Haparanda, 28° at Kuopio, 29° at Archangel, and 32° at Hangö, St. Petersburg, and Kharkov; below 40° in most parts of Sweden, Russia, and Germany. Rising during day to 60° or more in several parts of our Islands, and to 66° at Parsonstown; exceeding 65° in the south of France, and exceeding 70° over the Spanish Peninsula, the highest reading of all being 83° at Madrid.

Wind light from the Northward or North-Eastward over England, France, Spain, Germany, and the Netherlands, but from the Southward or South-Westward in Scotland and the north of Ireland, and from the Eastward in the west of Norway. Calm or variable over Sweden and northern Russia; North-Easterly in the south of Russia; variable in Austria and Italy. Subsequently shifting to the Westward in the south-west of France; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over Finland and the south of Sweden; 30·3 ins. and upwards in an anticyclone covering all but the most southern parts of Europe. Lowest, 30·1 ins. and less in two shallow depressions—one lying over the Gulf of Genoa, and the other over the central parts of the Adriatic. Anticyclone subsequently moving slowly southwards, and depression in south gradually filling up.

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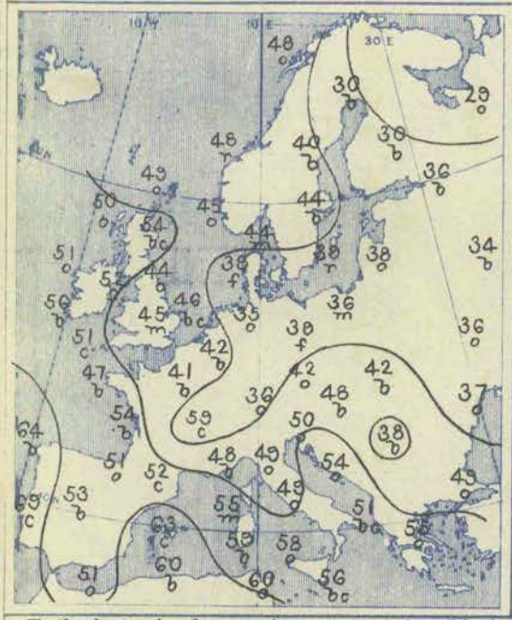
Tuesday, 21st April.

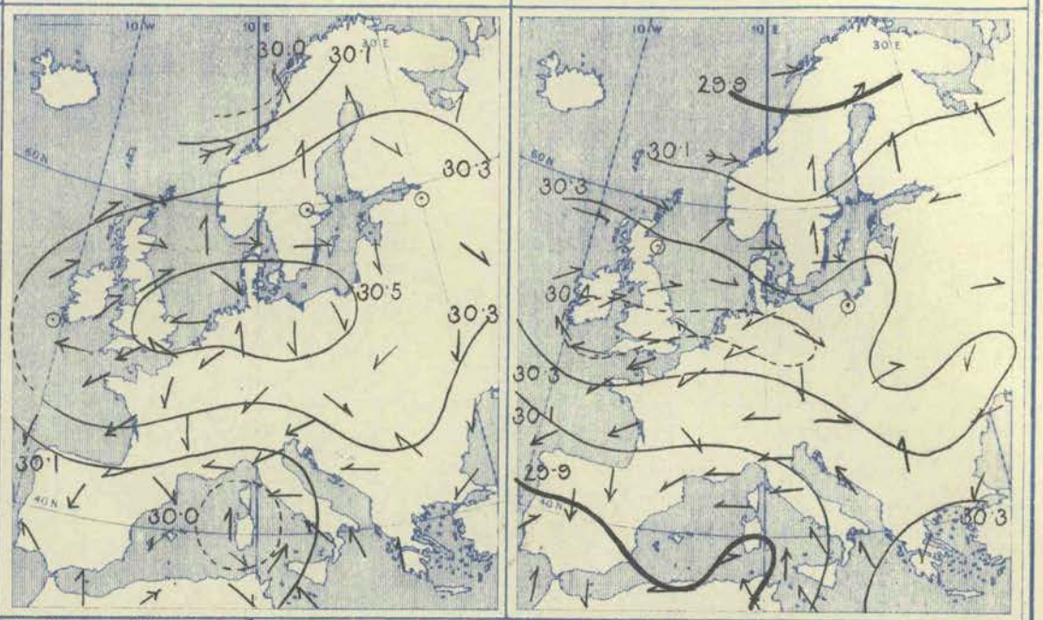
Temperature and Weather. 8 a.m.



Weather in morning fine over the greater part of our Islands, but with fog or mist in places; dull on our extreme north and north-west coasts. Fine over the Netherlands, France, and Spain, as well as in many parts of Sweden, Russia, and Austria; dull in the other Continental countries, with fog in places, and with rain at Christiansund and Wisby, and also at Naples. Rain falling later in many parts of Scandinavia and the north of Scotland, and considerable amounts at some of the Austrian and Italian stations.

Temperature fallen in England, France, Spain, and the northern parts of Germany and Italy, risen in most other localities. Morning readings highest, (1) 72° at Oporto, 69° at Lisbon, 64° at Corunna, and 63° at Palma (above 55° at the Mediterranean stations generally); (2) 56° at Valencia (Ireland), and 54° at Aberdeen and Donaghadee. Lowest, 29° at Archangel, 30° at Haparanda and Kuopio, 33° at Kharkov, and 34° at Hangö and Moscow. Rising during day to 60° or more in many parts of the United Kingdom and France, and reaching 67° at Leith and Perpignan; exceeding 70° over the Spanish Peninsula. Ground frost occurring over the inland parts of England at night.

Barometer and Wind. 8 a.m. and 6 p.m.

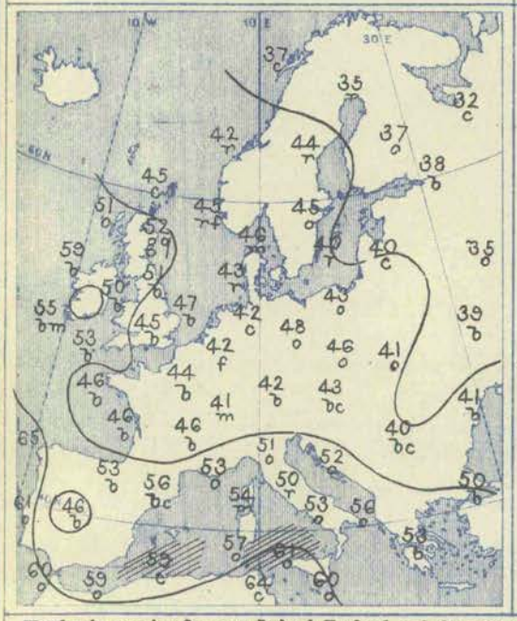


Wind light to fresh from the Eastward or North-Eastward over the southern parts of our Islands and the Continent generally, but Southerly or South-Easterly in south of Italy. South-Westerly or Westerly over the north of our Islands, and also over the greater part of Scandinavia and Denmark; light in force generally, but blowing a gale at Christiansund. Variable over northern Russia; light from the Northward or North-Eastward over Poland and north Germany. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards over Denmark, north Germany, the Netherlands, and the eastern and central parts of England; 30·3 ins. and upwards in an anticyclone covering the greater part of western, central, and northern Europe. Lowest, 30·0 ins. and less over Morocco and the southern and western parts of the Spanish Peninsula, and also in two depressions—one lying off the north-west of Norway, and the other over Corsica, Sardinia, and the neighbouring parts of the Mediterranean. Norwegian depression subsequently spreading southwards, and barometer falling over western Europe generally. Mediterranean depression gradually filling up.

Wednesday, 22nd April.

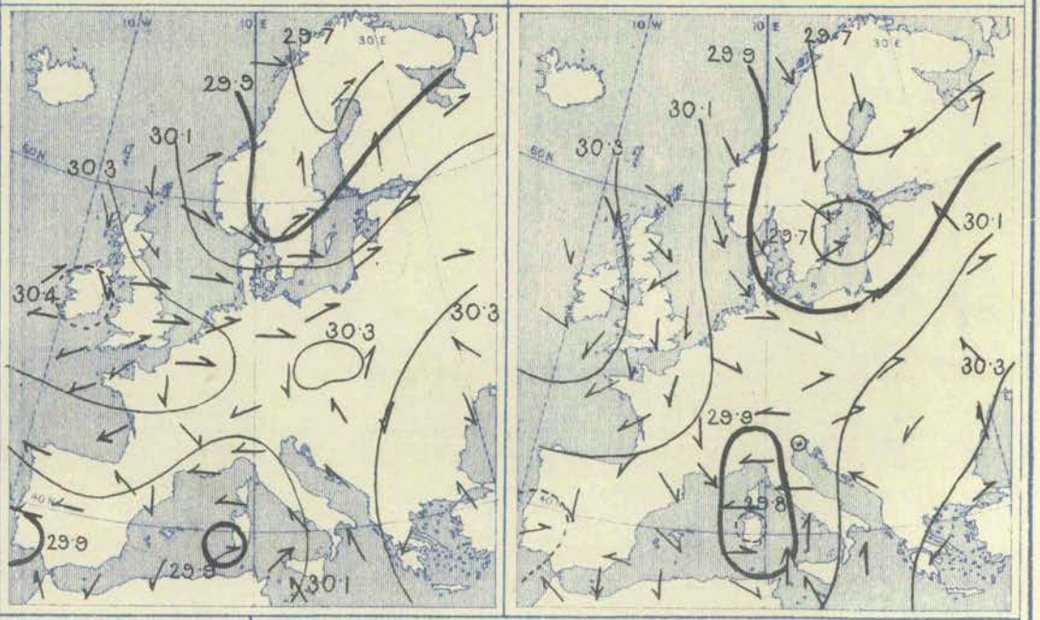
Temperature and Weather. 8 a.m.



Weather in morning fine over Ireland, England, and the greater part of central and southern Europe, but dull in Italy and the extreme south of France, with rain at Rome. Dull over Scotland and northern Europe generally, with fog in the Gulf of Finland, and rain at several of the Scandinavian and Danish stations. Showers falling later in the north and east of Great Britain; solar halos seen at Oxford, and lunar halo at Jersey. Heavy rain reported over Italy and the Adriatic—the largest amount being 1·6 ins. at Rome.

Temperature fallen in Ireland, Scotland, and the west of Norway, and also in Spain, risen in most other countries. Morning readings highest, 65° at Corunna, 64° at Sfax, and 61° at Lisbon and Palermo; above 55° at the Mediterranean and Spanish coast stations generally, as well as in the west of Ireland. Lowest, 32° at Archangel, 33° at Kharkov, 34° at Hangö and Helsingfors, and 35° at Haparanda, Uleaborg, and Moscow. Rising during day to 60° and upwards in the south of Ireland, and to 65° and upwards in many parts of Great Britain; touching 70° at some stations in Spain and the west and south of France.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light to moderate from the Westward or North-Westward over all the more northern and eastern parts of our Islands, as well as on the eastern shores of the North Sea; South-Westerly or Southerly over Scandinavia, the Baltic, and northern Russia. Light to moderate from East or North-East over Spain, France, and the extreme south of England; South-Easterly in Italy. Variable in Germany, Austria, and the south of Russia. Subsequently veering to the Northward in many parts of Great Britain, and blowing a gale from that quarter at Skudesnaes; shifting to the South-Westward in the south-east of England.

Barometer highest, 30·4 ins. and upwards over Ireland and the St. George's Channel; 30·3 ins. and upwards in an anticyclone extending from the Atlantic over our Islands, the Netherlands, and the north of France, and also in another system lying over south-eastern Europe. Lowest, 29·7 ins. and less in a depression lying over the north of Scandinavia; 29·9 ins. and less in two small disturbances—one lying near Lisbon, and the other over Sardinia. Depression over northern Europe subsequently moving eastwards, but also spreading out in a southerly direction.

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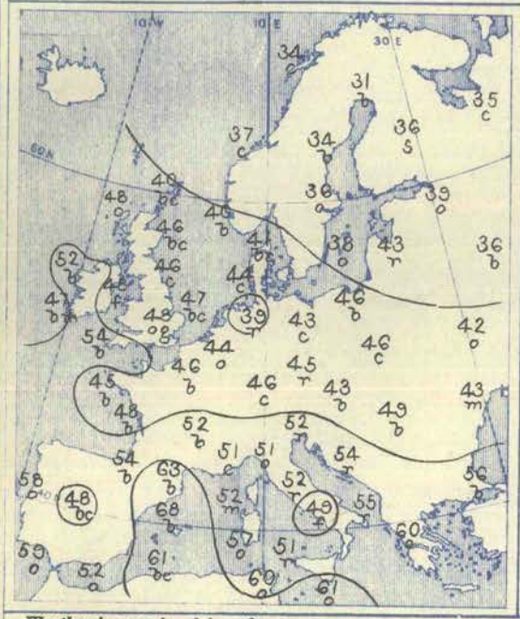
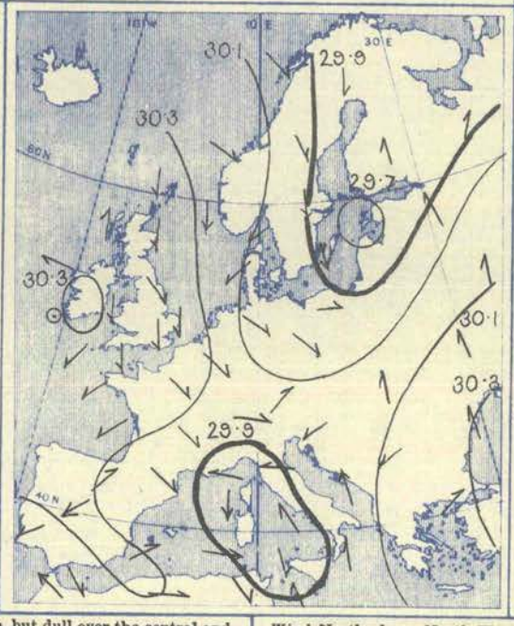
Thursday, 23rd April.

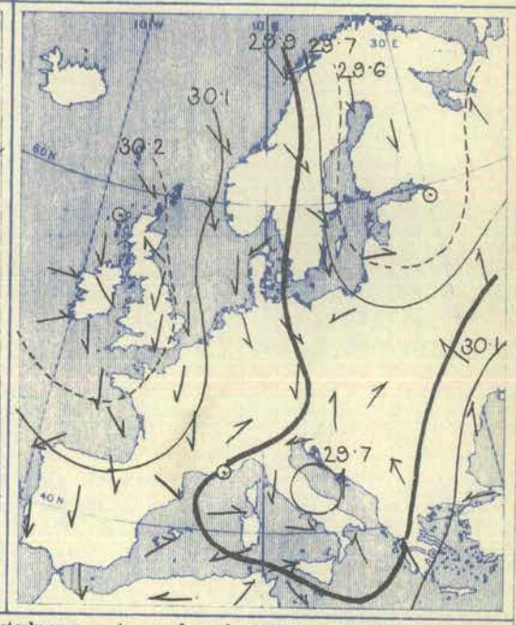
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western Europe as a whole, but dull over the central and south-eastern parts of England, with showers at Dungeness. Dull and rainy in many parts of Germany, Italy, and western Russia; snow reported at Kuopio. Fine over Austria and the south of Russia. A little rain falling later at many of our own south-eastern stations, as well as in Belgium, but sky subsequently clearing. Snow falling in the south of Sweden, and considerable amounts of rain in some parts of Italy and Austria.

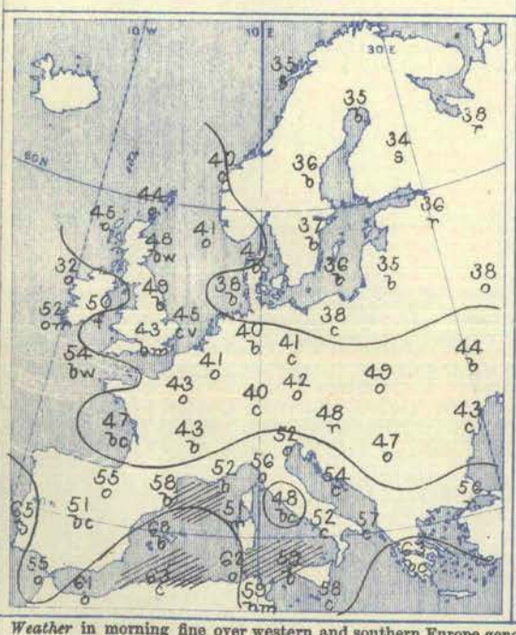
Temperature fallen over north-western, and risen over south-eastern Europe, but changed irregularly elsewhere. Morning readings highest, 68° at Palma, 67° at Barcelona, 63° at Perpignan, and 61° at Algiers and Malta; above 55° at the Mediterranean and Spanish coasts generally. Lowest, 31° at Haparanda, 33° at Uleaborg, Bodö, and Hernösand, and 35° at Archangel; below 40° in most parts of Russia and Scandinavia. Rising during day to 60° and upwards at several of our western and southern stations, and reaching 65° at Parsonstown; exceeding 70° over the Spanish Peninsula and the extreme south of France, and reaching 81° at Oporto. Frost occurring in many parts of Great Britain at night.

Wind Northerly or North-Westerly over western and northern Europe as a whole; light or moderate in force generally, but strong to a gale in the south of Sweden. Westerly or South-Westerly in eastern Germany; Southerly in Russia. South-Easterly in Italy, but Westerly or North-Westerly over Tunis and the central parts of the Mediterranean. Subsequently becoming light and variable in Ireland and Scotland; Northerly wind increasing to a gale in the south of Norway.

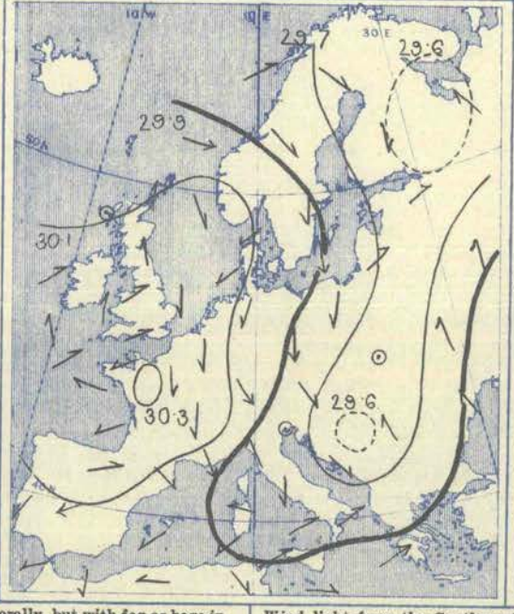
Barometer highest, 30·3 ins. and upwards over Ireland; 30·2 ins. and upwards in an anticyclone covering nearly the whole of our Islands and the north-west of France, as well as in another system over south-eastern Europe. Lowest, 29·6 ins. to 29·5 ins. and less in an elongated depression lying over Finland and the Baltic provinces; 29·9 ins. and less in a large area extending from northern Italy and the south of France to Sardinia and Sicily. Anticyclone in west beginning to give way later; depression in north moving eastwards.

Friday, 24th April.

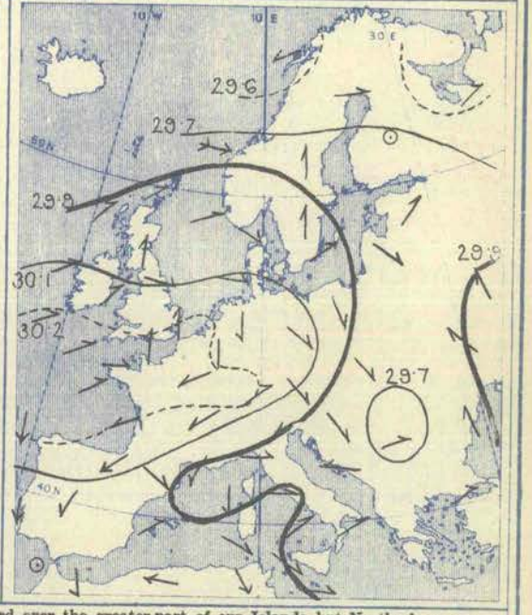
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and southern Europe generally, but with fog or haze in many parts of the United Kingdom. Fine also in Sweden and Denmark, but cloudy and unsettled over the greater part of Norway, Germany, Austria, and Russia, with rain in many places, and with snow at Bodö and Kuopio. No important change occurring over the western countries during day, but rain setting in at night over Ireland and the south-west of England.

Temperature changed very irregularly. Morning readings highest, 68° at Oporto and Palma, 65° at Lisbon and Barcelona, and 63° at Algiers and Athens; above 55° at the Mediterranean and Spanish coast stations generally, and above 50° in the west and south-west of our Islands. Lowest, 32° at Hangö and Helsingfors, 34° at Uleaborg and Kuopio, and 35° at Bodö and Riga. Rising during day to 60° and upwards in many parts of the United Kingdom, and reaching 66° at Leith; exceeding 70° in Spain, Sicily, and the extreme south of France, and touching 79° at Lisbon. Ground frost occurring over central England at night.

Wind light from the Southward over the greater part of our Islands, but Northerly on our south-east coasts, and variable at the Channel stations. Light to fresh from the Northward over Sweden, Denmark, the Baltic, and the Netherlands, and from the North-Westward in Germany, but Southerly or South-Easterly over the central and southern parts of Russia. Variable in Austria; North-Westerly in the south of France; Westerly or South-Westerly over the southern parts of Italy. Easterly in the west of France; moderate to fresh from the North-Eastward over the Spanish Peninsula. Southerly or South-Westerly winds setting in later over the whole of the United Kingdom, and also over Sweden.

Barometer highest, 30·2 ins. and upwards in an anticyclone covering the greater part of Ireland, England, and France; 30·1 ins. and upwards in another system over the south of Russia. Lowest, 29·6 ins. and less in a large shallow depression over northern Russia, and also in a smaller system over eastern Austria; 29·9 ins. and less in a shallow disturbance over Algeria. Anticyclone over our Islands subsequently moving slowly southwards; new depression appearing off the Norwegian coasts in evening.

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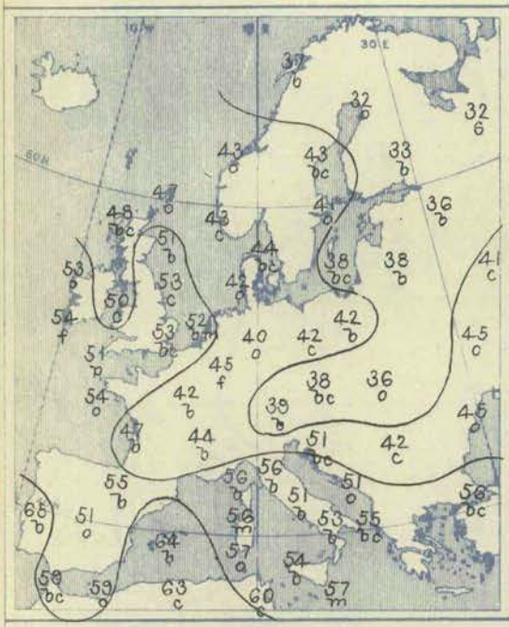
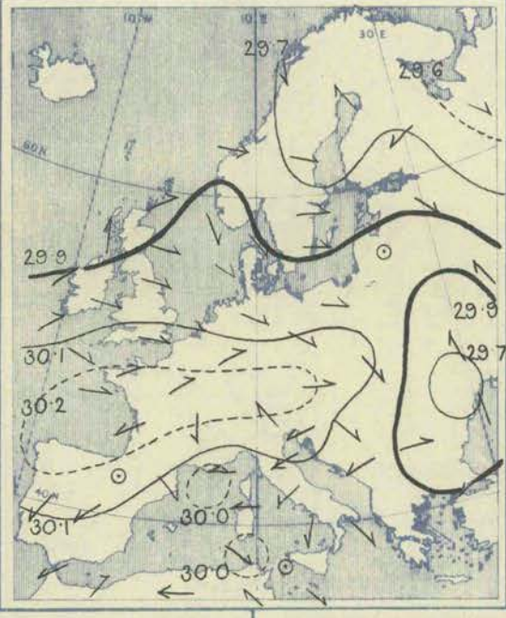
Saturday, 25th April.

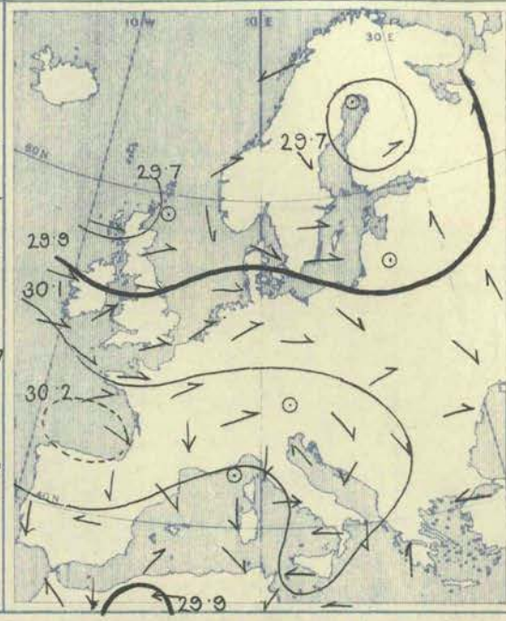
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the north and east of our Islands, as well as over France, Germany, the greater part of southern Europe, and some of the northern stations in Russia and Scandinavia. Cloudy or dull elsewhere, with rain in the south-western parts of the United Kingdom; snow reported at Archangel. Showers falling later in many parts of our Islands, and also in the north of France; sky clearing in the south of Scandinavia.

Temperature risen in all but the central and south-eastern countries. Morning readings highest, 68° at Oporto and Barcelona, 65° at Lisbon, 64° at Palma, and 63° at Algiers; above 55° at most of the Mediterranean and Spanish coast stations, and above 50° in many parts of the United Kingdom. Lowest, (1) 32° at Haparanda and Archangel, 33° at Kuopio, and 35° at Hangö and Helsingfors; (2) 34° at Hermanstadt, and 36° at Breslau, Warsaw, and Lemberg. Rising during day to 60° and upwards in many parts of Great Britain and France, and reaching 66° at Leith and York; exceeding 70° over the Spanish Peninsula and the extreme south of France, and touching 77° at Madrid, Oporto, and Lisbon.

Wind light from the Westward or South-Westward over our Islands, the Netherlands, and the north of France, and from the Westward or North-Westward in Scandinavia, Denmark, Germany, and Austria. Southerly or South-Easterly over the central and southern parts of Russia; variable in the north of that country. North-Easterly over southern Europe generally, but Easterly or South-Easterly over the Adriatic. North-Westerly breezes setting in later over the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone covering the Bay of Biscay and the greater part of France and south Germany. Lowest, 29·6 ins. and less in a depression lying over the extreme north of Russia; 29·7 ins. and less in another disturbance over the south of Russia, with its centre between Kiev and Odessa; 29·9 ins. and less in the north and west of Scotland. New depression appearing later off the north of Scotland, and small secondary disturbances advancing eastwards across our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week a large anticyclone covered nearly the whole of Europe, the wind being rather variable in the north-western countries, but Northerly at most of the northern and central stations. The weather was mostly fair, but owing to the gradual formation of shallow depressions over Italy and the Adriatic, heavy rain was experienced in some parts of Austria, south Germany, and northern Italy.

After the 20th the anticyclone became smaller and moved westwards, its influence being, however, shown over our Islands and France until the 23rd. A large depression now spread over northern and central Europe from the Northward, and occasioned strong winds or gales from the Northward in Scandinavia, with snow in Finland and Sweden. The disturbances in the south also became more pronounced, so that further large quantities of rain were reported over Italy and Austria.

Towards the close of the week the anticyclone over western Europe moved southwards, while shallow depressions appeared off our own extreme north and north-west coasts. Westerly breezes and showery weather now spread over the entire Kingdom, but the amount of rain was everywhere slight, and in some places there was none at all.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	34·3	+ 4·1	34	+ 4	SOUTHPORT	37·5*	?	37*	?
OSWALDKIRK (Yorkshire)	41·9	+ 7·2	41	+ 8	MANCHESTER (Oldham Road)	31·5*	?	32*	?
WORKSOP	39·4	+ 7·3	39	+ 7	COLWYN BAY	65·2	?	65	?
THURCASTON (Leicestershire)	43·5	+10·2	44	+ 10	TENBY	59·1*	+12·1	60*	+ 12
MARGATE	43·9	+ 6·1	44	+ 7	NEWQUAY	59·0	+15·8	60	+ 16
WESTBOURNE (Sussex)	43·4*	- 1·4	44*	- 2	TORQUAY	38·0*	- 5·5	39*	- 5
BRIGHTON	46·2	+ 2·2	47	+ 3	ARLEY COTTAGE (County Cavan)	39·9	+ 5·9	40	+ 6
EASTBOURNE	48·7	+ 4·7	49	+ 6	GUERNSEY	58·6*	+10·7	60*	+ 10

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 18.] *Third Series.* WEEK ENDING SATURDAY, MAY 2ND, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 104.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	33	50·4	38·7	44·3	1 below	30	− 4	9	− 2	310	+ 87	305	− 291
	1. SCOTLAND, EAST	62	32	55·5	39·1	46·0	0 (average)	40	− 1	8	− 3	401	+111	408	− 222
	2. ENGLAND, N.E.	63	35	53·8	41·9	47·5	2 above	39	+ 1	0	− 7	396	+116	325	− 212
	3. ENGLAND, EAST	69	31	57·1	40·5	48·4	1 above	51	− 1	4	− 3	443	+ 76	381	− 221
	4. MIDLAND COUNTIES	66	28	56·4	40·1	47·9	0 (average)	49	− 5	5	− 3	496	+100	362	− 243
	5. ENGLAND, SOUTH	68	33	57·1	43·3	49·9	1 above	55	− 3	0	− 2	509	+ 94	237	− 235
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	31	53·2	40·4	46·5	1 below	38	− 7	4	− 3	425	+113	234	− 216
	7. ENGLAND, N.W.	59	31	53·5	43·0	48·0	0 (average)	42	− 5	0	− 5	452	+134	201	− 247
	8. ENGLAND, S.W.	64	28	55·7	42·8	48·9	0 (average)	48	− 5	0	− 3	563	+131	155	− 202
	9. IRELAND, NORTH	62	31	54·1	40·3	46·9	1 below	41	− 7	5	0	528	+144	162	− 225
	10. IRELAND, SOUTH	64	29	56·0	41·8	48·5	1 below	46	− 8	1	− 2	669	+174	89	− 205
	—CHANNEL ISLANDS	59	39	55·4	46·7	50·8	0 (average)	62	+ 3	0	0	754	+226	39	− 109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 104.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10	4 more	94	+ 9	22·1	+ 4·1	27	− 8	26	− 8	251	− 70	19	− 5
	1. SCOTLAND, EAST	4	3	1 less	67	+ 1	6·3	− 3·4	36	0	34	0	383	+ 13	29	+ 1
	2. ENGLAND, N.E.	3	2	2 less	54	−10	4·8	− 2·7	35	0	34	0	357*	− 9	26	− 1
	3. ENGLAND, EAST	4	2	2 less	65	+ 2	6·3	− 1·0	52	+11	50	+10	387	− 33	28	− 3
	4. MIDLAND COUNTIES	2	1	3 less	59	− 1	5·4	− 2·9	43	+ 6	42	+ 6	358*	− 24	26	− 2
	5. ENGLAND, SOUTH	3	2	2 less	56	− 2	5·2	− 3·7	44	+ 1	43	+ 1	363*	− 74	26	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	0 (average)	76	+ 5	14·5	− 2·1	40	0	39	0	333	− 45	25	− 3
	7. ENGLAND, N.W.	4	6	2 more	69	+ 4	10·1	+ 0·1	35	0	34	0	312	− 18	26	− 1
	8. ENGLAND, S.W.	2	1	4 less	62	− 4	7·9	− 4·7	57	+12	56	+11	413	− 61	30	− 5
	9. IRELAND, NORTH	4	5	1 more	75	0	11·4	− 0·4	47	+ 9	45	+ 9	310	− 58	23	− 4
	10. IRELAND, SOUTH	3	2	4 less	66	− 4	10·0	− 3·3	51	+ 9	50	+ 9	352	− 84	26	− 6
	—CHANNEL ISLANDS	3	1	3 less	66	− 6	5·4	− 5·5	58	+ 4	58	+ 2	481	− 51	35	− 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was fair and dry over the Kingdom as a whole, but some considerable falls of rain were experienced in the extreme north and north-west during the earlier part of the week, and showers of cold rain, sleet, and soft hail in many districts later on. Thunderstorms occurred in several parts of Great Britain during the middle part of the week.

Temperature as a whole did not differ much from the mean, being high during the earlier, and low during the latter part of the week. The highest of the maxima were registered either on the 26th or 27th, and varied from 69° in England E., and 68° in England S., to 59° in Scotland W., England N.W., and the Channel Islands, and to 58° in Scotland N. The absolute minima were very low for the time of year; they were recorded, as a rule, on May 2nd, when the sheltered thermometer fell to 28° in the Midland counties and England S.W., 29° in Ireland S., and to between 31° and 33° in most other parts of the Kingdom. In England N.E., however, the lowest reading was 35°, and that in the Channel Islands 39°. Sharp ground frosts were very general during the latter part of the week.

Rainfall exceeded the mean in Scotland N., Ireland N., and England N.W., and just equalled it in Scotland W., but in all other districts there was a considerable deficit.

Bright Sunshine was again deficient in Scotland N., but either equalled or exceeded the normal in all other districts. The percentage of possible duration ranged from 58 in the Channel Islands, 56 in England S.W., and 50 in Ireland S. and England E., to 34 in Scotland E. and England N.E. and N.W., and to 26 in Scotland N.

Barometer and Wind.—The distribution of pressure during the earlier part of the period was mainly anticyclonic over the southern parts of the Kingdom, and cyclonic in the north. No depression of importance appeared immediately over our Islands, but during the early part of the week some shallow systems passed north-eastwards off the north of Scotland, causing Westerly and South-Westerly breezes in most places. Subsequently the barometer rose over the Atlantic and western parts of our Islands, and on Tuesday a disturbance moved south-south-eastwards over the north-eastern part of the North Sea, accompanied and followed by some very small secondaries over the north and north-east of Great Britain. North-Westerly winds then became prevalent and finally Northerly or North-North-Easterly breezes spread all over the Kingdom, and temperature fell decidedly.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 103 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	36	48·4	39·9	44·0	+ 1·0	23	6	5	1·00	+0·61	*	*	*	*
	Stornoway	52	35	49·6	39·0	44·1	- 0·8	27	8	4	0·71	+0·19	42·6	+ 1·8	40	+ 2
	Wick	55	35	52·3	38·9	45·3	+ 0·5	36	9	6	0·55	+0·15	*	*	*	*
	Glencarron ℌ	51	34	48·5	36·6	42·3	- 3·4	25	15	6	2·05	+1·16	*	*	*	*
	Fort Augustus ℌ	56	33	51·9	38·2	44·7	- 2·7	35	11	5	0·70	+0·19	16·7	-11·1	16	-12
	Fort William ℌ	58	34	51·6	39·6	45·3	- 2·7	33	7	5	0·69	-0·11	22·7	-14·1	21	-14
1. SCOTLAND, E.	Nairn	62	36	54·3	39·6	46·6	+ 0·3	42	7	4	0·34	+0·04	*	*	*	*
	Aberdeen	61	35	53·9	40·1	46·8	+ 1·2	40	4	4	0·48	+0·05	39·7	+ 0·5	37	0
	Braemar ℌ	52	32	48·1	36·9	42·2	- 0·8	23	14	4	0·30	-0·23	31·7†	- 3·9†	30†	- 4†
	Ochtertyre ℌ	58	33	54·9	38·3	46·2	- 0·1	45	10	5	0·20	-0·26	*	*	*	*
	Leith	59	37	57·1	41·1	48·7	+ 1·6	51	3	4	0·26	-0·03	*	*	*	*
	Marchmont ℌ	56	33	52·6	38·4	45·2	- 0·2	38	10	3	0·16	-0·32	56·3	- 0·7	35	- 1
2. ENGLAND, N.E.	Alnwick Castle	60	37	52·6	41·7	46·9	+ 2·2	36	1	4	0·34	-0·08	*	*	*	*
	Durham	63	35	55·3	39·7	47·1	+ 1·4	45	6	3	0·24	-0·13	36·4	+ 2·9	35	+ 4
	Shields	61	37	53·3	42·1	47·4	+ 1·9	38	0	2	0·14	-0·23	*	*	*	*
	Scarborough ℳ	60	37	52·5	43·4	47·7	+ 1·2	40	0	3	0·12	-0·28	*	*	*	*
	York	60	35	55·9	41·4	48·3	+ 0·6	47	2	3	0·18	-0·17	32·8	- 3·9	32	- 3
	Spurn Head	61	38	53·1	42·9	47·8	+ 1·7	41	0	3	0·09	-0·19	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	67	32	56·7	39·8	47·8	- 0·2	50	6	5	0·21	-0·14	49·5	+ 7·9	48	+ 8
	Yarmouth	68	35	55·3	42·6	48·7	+ 2·1	47	0	4	0·33	-0·01	*	*	*	*
	Geldeston	69	33	57·5	40·4	48·5	+ 1·0	52	4	4	0·25	-0·03	49·1	+ 6·1	48	+ 5
	Cambridge	67	32	58·7	39·6	48·7	- 0·5	57	7	4	0·13	-0·22	?58·3	?+17·5	?57	?+18
	Rothamsted	66	31	57·5	40·3	48·5	+ 0·3	53	5	3	0·02	-0·45	49·3	+11·0	48	+11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	30	56·6	40·0	47·9	- 0·3	50	6	2	0·10	-0·22	*	*	*	*
	Loughborough	66	28	57·6	40·1	48·4	- 1·0	53	5	2	0·07	-0·28	*	*	*	*
	Stamford (Ketton Hall)	66	28	59·3	38·3	48·3	0·0	60	10	4	0·16	-0·21	*	*	*	*
	Cheadle ℳ	61	34	54·0	39·8	46·6	- 0·1	41	6	4	0·10	-0·33	*	*	*	*
	Shirley (near Solihull)	63	34	54·5	41·0	47·4	- 0·4	42	3	3	0·21	?	*	*	*	*
	Churchstoke ℳ	60	33	54·8	39·5	46·8	+ 0·3	44	7	4	0·22	-0·16	44·6	+ 6·6	43	+ 6
	Hereford ℳ	62	36	57·5	41·8	49·3	+ 0·6	52	1	2	0·03	-0·34	*	*	*	*
	Cirencester	61	31	55·3	39·0	46·8	- 0·9	46	8	1	0·01	-0·39	55·7	+14·5	55	+15
	Oxford	63	30	57·9	41·6	49·4	+ 0·7	53	1	0	—	-0·35	51·2	+11·7	50	+11
5. ENGLAND, S.	London	68	38	59·7	43·3	51·1	+ 0·5	64	0	1	0·02	-0·36	39·5†	+ 6·2†	39†	+ 5†
	North Foreland	66	38	56·9	44·3	50·3	+ 3·8	58	0	3	0·24	?	*	*	*	*
	Dungeness	57	35	54·9	42·7	48·5	- 0·1	46	0	2	0·09	-0·23	*	*	*	*
	Hastings (St. Leonards)	58	36	54·9	42·7	48·5	- 1·1	46	0	4	0·19	-0·16	40·4	- 5·2	40	- 4
	Southampton	67	33	61·2	42·8	51·6	+ 0·9	67	0	2	0·07	-0·30	46·9	+ 2·9	46	+ 2
	Hurst Castle	63	38	56·9	45·9	51·1	+ 1·8	64	0	3	0·25	-0·07	*	*	*	*
	Stowell ℳ	63	35	55·1	41·3	47·9	- 1·5	44	2	3	0·16	-0·29	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	56	32	51·0	38·0	44·2	- 3·8	32	11	4	0·94	+0·15	*	*	*	*
	Glasgow	55	36	52·3	40·6	46·2	- 0·5	35	4	4	0·46	+0·10	32·6	- 0·7	31	- 1
	Ardrossan	54	39	52·3	41·9	46·9	- 0·9	35	0	3	0·39	-0·01	*	*	*	*
	Glenlee ℌ	59	31	55·7	38·7	46·8	- 0·3	47	9	5	0·70	+0·18	*	*	*	*
	Douglas (Isle of Man)	58	39	54·6	42·8	48·4	+ 0·8	45	0	3	0·21	-0·21	48·0	+ 2·0	46	+ 1
7. ENGLAND, N.W.	Stonyhurst	55	34	51·9	40·7	46·0	- 0·9	33	4	5	1·55	+1·10	35·6	- 2·4	34	- 3
	Blackpool ℳ	55	31	54·1	42·7	48·1	+ 0·1	43	0	4	0·39	+0·09	40·4	+ 2·4	39	+ 1
	Manchester (Prestwich)	59	33	53·5	41·7	47·3	0·0	38	1	5	0·68	+0·30	25·4	?	24	?
	Liverpool Obsy. (Bidston)	57	40	54·1	44·9	49·3	+ 0·4	51	0	4	0·40	+0·11	*	*	*	*
	Llandudno ℳ	57	37	54·1	44·0	48·8	- 0·1	48	0	4	0·18	-0·17	*	*	*	*
	Holyhead	56	40	53·4	43·9	48·4	+ 0·4	45	0	3	0·14	-0·22	*	*	*	*
8. ENGLAND, S.W.	Llandovery	62	28	56·9	37·1	46·5	- 1·8	52	14	5	0·23	-0·26	*	*	*	*
	Pembroke	55	39	52·1	44·9	48·3	+ 0·7	44	0	2	0·02	-0·33	59·4	+12·7	58	+13
	Arlington (N. Devon)	59	34	55·6	42·6	48·8	+ 0·9	48	0	2	0·17	-0·36	*	*	*	*
	Cullompton ℳ	64	32	58·9	42·2	50·2	+ 0·2	57	0	1	0·13	-0·46	57·7	+17·7	57	+16
	Falmouth	57	39	55·1	44·8	49·7	+ 0·9	54	0	1	0·06	-0·62	60·7	+13·7	60	+13
	Plymouth	59	37	55·8	44·0	49·6	- 0·6	53	0	0	—	-0·47	51·3	+ 6·6	51	+ 6
	Prawle Point	61	37	55·3	43·7	49·2	+ 1·0	50	0	0	—	-0·53	*	*	*	*
9. IRELAND, N.	Malin Head	53	39	50·1	43·0	46·4	- 1·2	31	0	5	0·83	?	*	*	*	*
	Londonderry	59	37	53·7	40·2	46·6	- 2·0	40	5	5	0·87	+0·49	*	*	*	*
	Edenfel (Omagh)	57	31	52·6	37·9	44·9	- 3·7	38	11	5	0·77	+0·35	*	*	*	*
	Belmullet	58	39	53·7	44·7	49·0	- 0·6	49	0	4	0·45	-0·03	*	*	*	*
	Markree Castle	60	31	54·5	38·1	45·9	- 1·3	44	11	5	0·62	+0·20	44·7	+ 5·9	43	+ 6
	Armagh	61	31	56·2	38·1	46·7	- 0·8	49	11	5	0·35	-0·13	47·3	+10·6	45	+ 9
	Donaghadee	62	37	56·3	42·0	48·8	+ 1·7	48	0	4	0·11	-0·27	*	*	*	*
	Edgeworthstown	61	32	55·9	38·1	46·6	- 1·6	49	11	3	0·23	-0·28	*	*	*	*
10. IRELAND, S.	Dublin	63	36	56·6	42·5	49·2	+ 0·4	50	0	4	0·13	-0·31	51·1	+ 7·7	50	+ 8
	Parsonstown	59	30	56·0	39·9	47·6	- 0·6	43	6	4	0·21	-0·24	44·5	+ 5·5	43	+ 5
	Kilkenny	60	32	56·7	41·4	48·7	- 0·6	49	2	1	0·02	-0·46	*	*	*	*
	Roche's Point	64	38	57·3	43·7	50·2	+ 0·5	57	0	1	0·01	-0·71	*	*	*	*
	Valencia	56	34	54·1	43·0	48·3	- 1·5	44	0	5	0·24	-0·63	58·0	+14·7	57	+14
	Killarney	60	29	55·9	39·7	47·4	- 1·8	47	6	3	0·35	?	*	*	*	*
	Foynes	59	33	55·2	42·3	48·4	- 0·6	45	0	3	0·35	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	45	55·3	47·3	51·1	+ 1·3	64	0	2	0·04	-0·36	66·2	?	66	?
	Jersey	59	39	55·4	46·1	50·5	- 0·7	60	0	4	0·23	-0·14	52·7	+ 2·3	53	+ 2

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

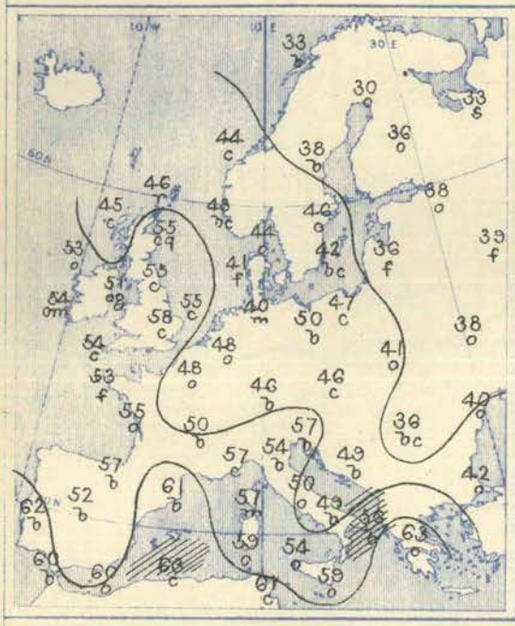
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 26th April.

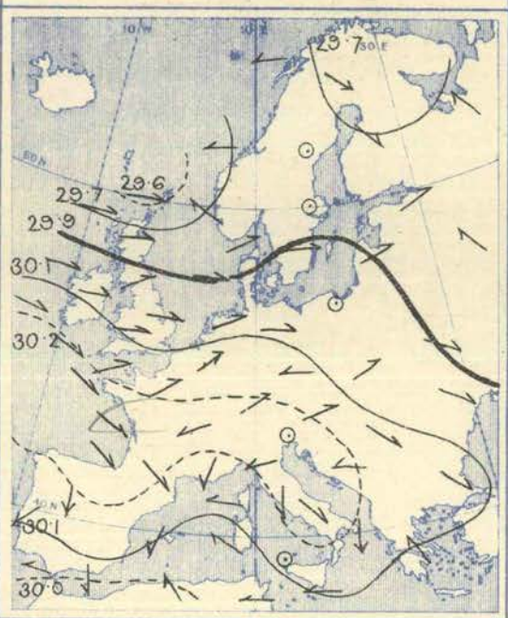
Temperature and Weather.

8 a.m.

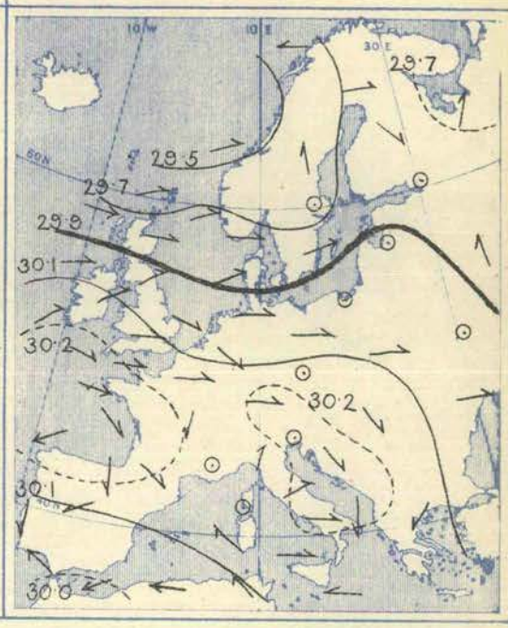


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over southern Europe, many parts of north Germany and Lapland; cloudy or overcast elsewhere, with some showers over the northern and north-western parts of the Kingdom, and misty, drizzling rain over the north of France. A little rain over our north-western and northern districts during the day, as well as over Scandinavia, the Baltic, and Germany, fog or mist reported at several northern stations.

Temperature in morning highest, 60° and more on the southern and western sides of the Mediterranean, and on the Portuguese coast, and exceeding 50° over the British Islands and west of France. Lowest, 30° to 36° over Lapland, Finland, and the north of Russia, 39° at Moscow, 40° to 48° over the greater part of central Europe. Rising later to between 60° and 65° over many parts of our Islands (67° in London), to a little higher over Italy, and touching 70° to 75° over Algeria, and 75° to 79° over the Iberian Peninsula.

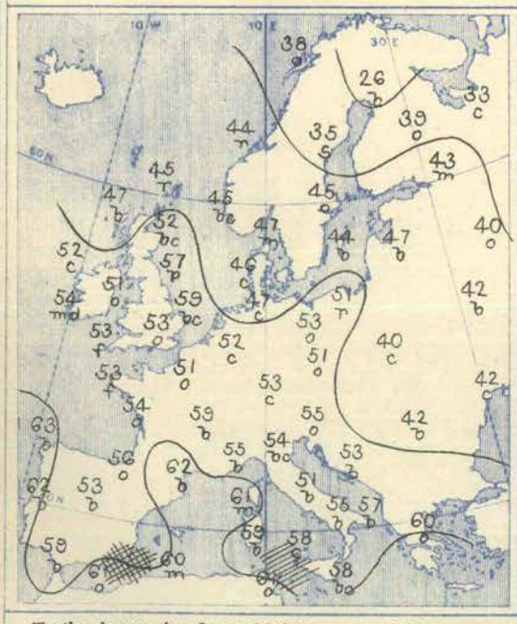
Wind Westerly (West-South-West to West-North-West) over the United Kingdom and greater part of the North Sea, and moderate in force; Southerly to Easterly (and light) over Norway; very light elsewhere, but North-Easterly in direction over the northern and eastern shores of the Mediterranean and Spain. Latter current falling light and variable later.

Barometer highest, 30·2 ins. and more to 30·0 ins. in a large anticyclonic system of irregular form, lying over the Bay of Biscay, Spain, France, and central Europe. Lowest, (1) below 29·6 ins. over the Shetland Islands, and below 29·8 ins. over Norway; (2) below 30·0 ins. over Algeria. Falling somewhat decidedly over Norway and Lapland later, rising slightly over the British Islands.

Monday, 27th April.

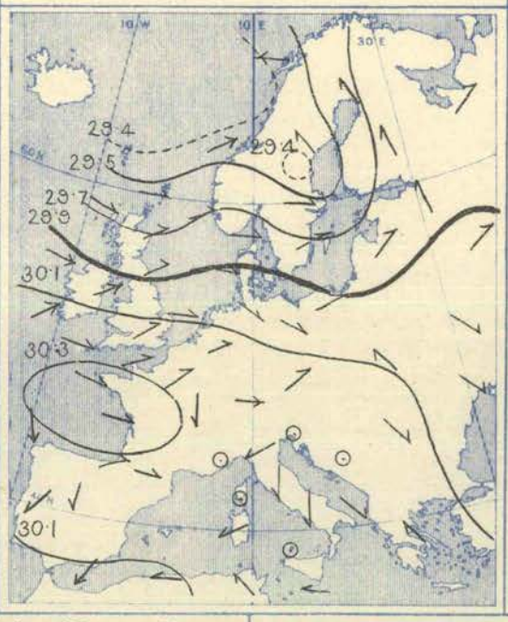
Temperature and Weather.

8 a.m.

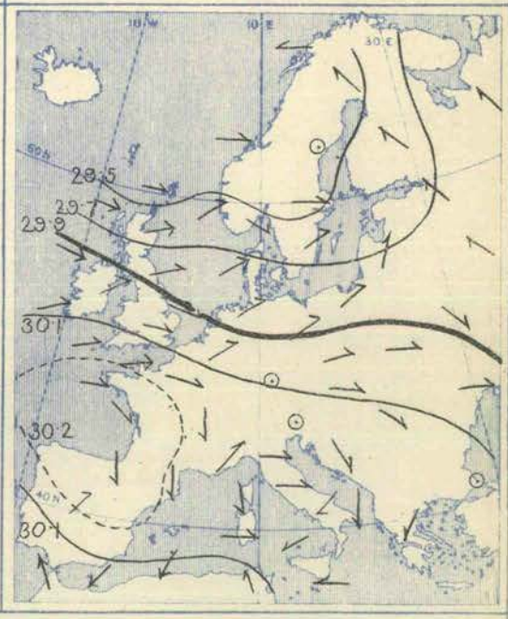


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, Spain, and France, and in some parts of the British Islands; cloudy or overcast elsewhere, with rain at several of our western and northern stations and the west of Norway, in some parts of north Germany, and at Kharkov. Showers falling later over the western and northern parts of the British Islands, and the countries lying to the eastward of the North Sea, and a considerable fall of snow at Haparanda.

Temperature in morning highest, 70° at Oporto, 60° and more on the Portuguese coasts generally, and at several of the Algerian and other Mediterranean stations, 59° at York, and 57° or 58° over our midland and north-eastern counties generally. Lowest, 26° at Uleaborg, 33° at Archangel and Helsingfors, 40° at Odessa, Kharkov, and Moscow; rising later to between 65° and 68° in many parts of England, and to 70° and more in the south of France, but tending to fall a little in Ireland.

Wind (1) light and anticyclonic over the greater part of southern, central, and eastern Europe; (2) light to fresh from between South-West and West over the British Islands and the North Sea; Southerly on the eastern shores of the Baltic; South-Easterly to Easterly over Lapland. Not much change later.

Barometer highest, 30·4 ins. and more over the Azores; 30·3 ins. and more to 30·0 ins. in a large anticyclone covering the southern half of Europe, and exceeding 29·8 ins. in a "ridge" extending northwards over the whole of Russia. Lowest, below 29·5 ins. in a large, but not deep depression off the west of Norway, and in a hollow spreading south-eastwards to the Gulf of Bothnia; very slight secondary disturbances over the British Islands. Falling unsteadily over the United Kingdom and North Sea during day.

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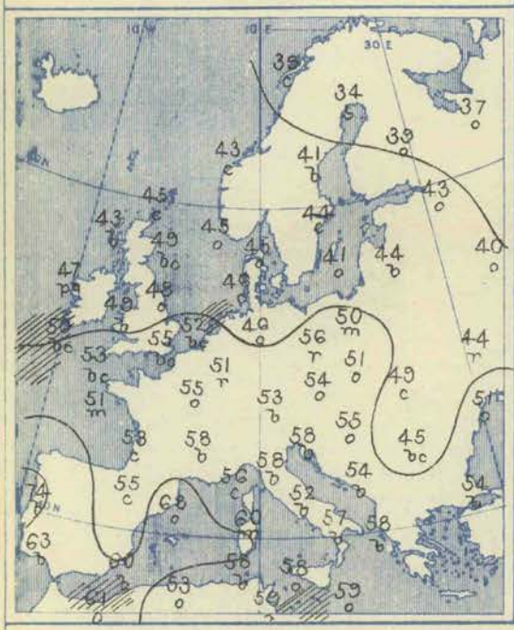
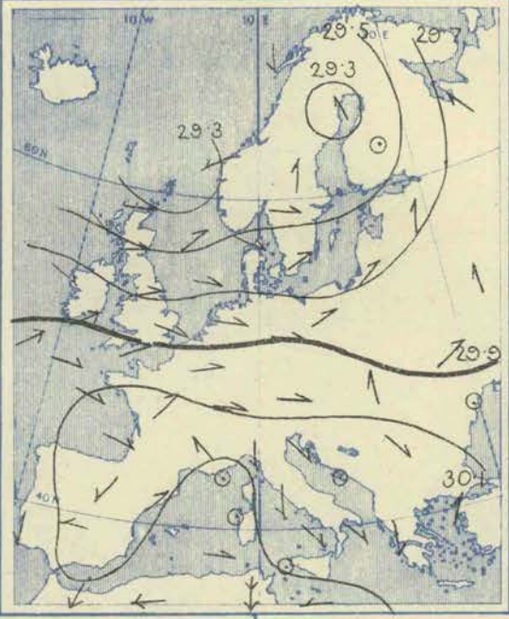
Tuesday, 28th April.

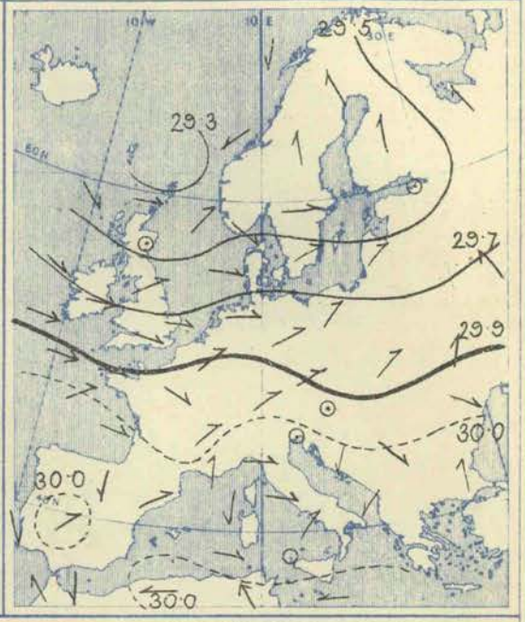
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-eastern, southern, and south-western Europe, and in many parts of the British Islands; cloudy and changeable elsewhere, with rain in the south of Russia, north Germany, and at some of the western and northern stations in the United Kingdom; snow at Haparanda. Showers falling later over almost all parts of the British Islands, northern Europe, and the North Sea, and more considerable falls over north Germany; sleet or hail at several of our northern and western stations; lightning seen both in Scotland and Ireland; a double rainbow in London.

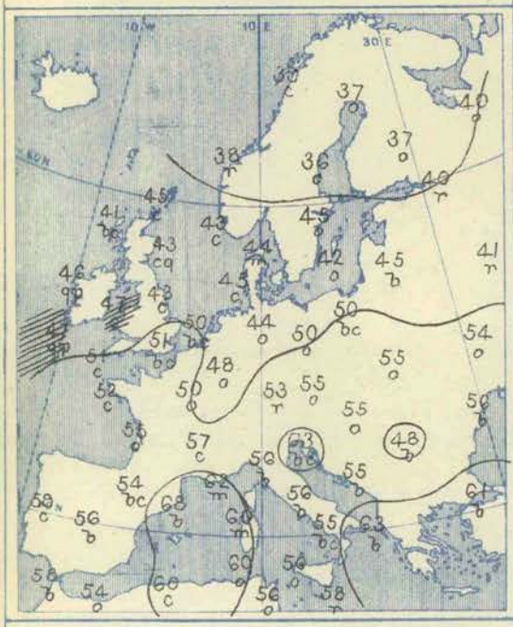
Temperature falling in Ireland and Scotland, and fall spreading south-eastwards. Morning readings highest, (?) 74° at Oporto, 68° at Barcelona, 63° at Lisbon, 61° at Nemours; exceeding 50° at most stations over southern, central, and western Europe. Lowest, (1) 34° to 39° at the stations in the extreme north; (2) 39° at Kharkov, 42° at Odessa. Rising later to between 63° and 60° in several parts of England, to 61° at Wiesbaden, 63° at Paris, to between 66° and 70° over Italy, and to between 70° and 72° in the south of France. Falling briskly over England towards night.

Wind (1) fresh to moderate from the Westward over the British Islands and North Sea; from South-West over the southern parts of Scandinavia; from South over Finland, and light from East over Lapland and central Russia; (2) very light and anticyclonic over the central and southern countries of Europe. Veering a little towards North-West on our north-western coasts later, and change inclined to spread south-eastwards.

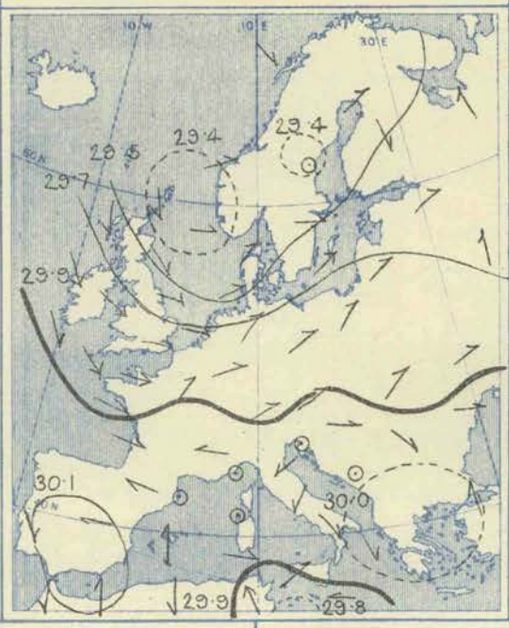
Barometer highest, 30·1 ins. and more to 30·0 ins. in a somewhat complex anticyclone covering the whole of southern and a good deal of central Europe. Lowest, below 29·3 ins. in two depressions—one covering the Shetland Islands and extreme west of Norway, the other lying over the extreme north of Sweden. Some shallow secondary disturbances over the Baltic. Falling over the greater part of our Islands all day, but inclined to rise again in the north at night.

Wednesday, 29th April.

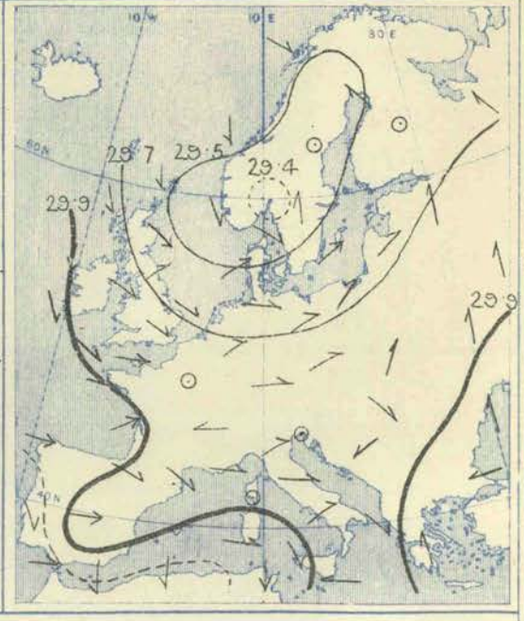
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over the greater part of southern Europe; changeable (but bright in many places) over the United Kingdom; unsettled over central and eastern Europe, with rain in many places. Showers experienced later in most regions; large falls in south of France and Austria; thunder, lightning, hail, and sleet occasionally over the northern parts of the British Islands; thunderstorm at Lyons and Perpignan. Succeeding night very sharp over England.

Temperature falling over western Europe, rising over Russia. Morning readings highest, 68° at Barcelona, and exceeding 60° at several other of the most southern stations; 50° and more over central Europe, as well as over the southern parts of England. Lowest, 35° at Helsingfors, 37° at Kuopio and Haparanda, 38° at Christiansund, 41° at Stornoway. Failing to reach 60° at almost all our stations later, but touching 61° at Berlin and Paris, 66° to 72° over Italy, 74° at Lyons, 76° at Perpignan.

Wind (1) North-Westerly and Westerly (cyclonic) over the British Islands and France; South-Westerly over Germany and the Baltic, very light and variable over northern Europe; (2) very light and variable over southern Europe also; strong and variable over Algeria and Tunis. Becoming more Northerly over the United Kingdom later, but in other respects not changing much.

Barometer highest, 30·1 ins. to 30·0 ins. over south-western and south-eastern Europe, and exceeding 29·8 ins. over the south-western parts of our Islands, France, Germany, and the southern parts of Russia. Lowest, below 29·5 ins. over Scandinavia and the north-east of Scotland, and below 29·4 ins. in two depressions—one over the Gulf of Bothnia, the other between the Shetland Islands and the Norwegian coast. Rising decidedly over the United Kingdom, most in the north; falling a little over France.

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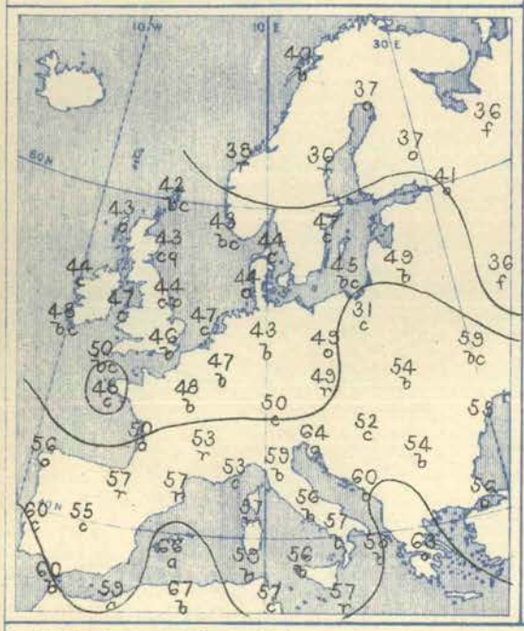
Thursday, 30th April.

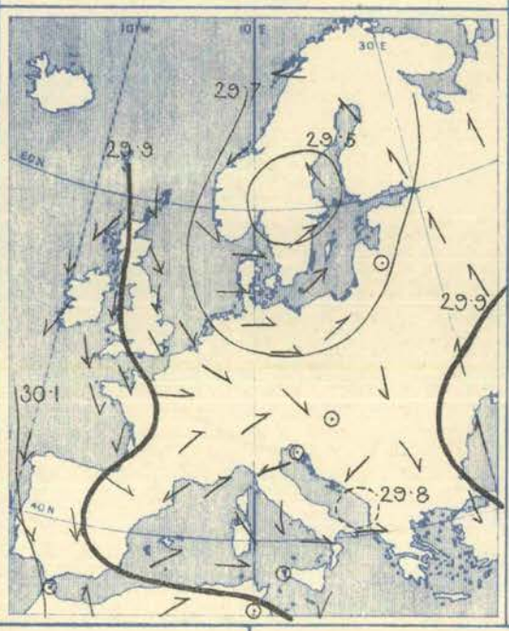
Temperature and Weather.

8 a.m.

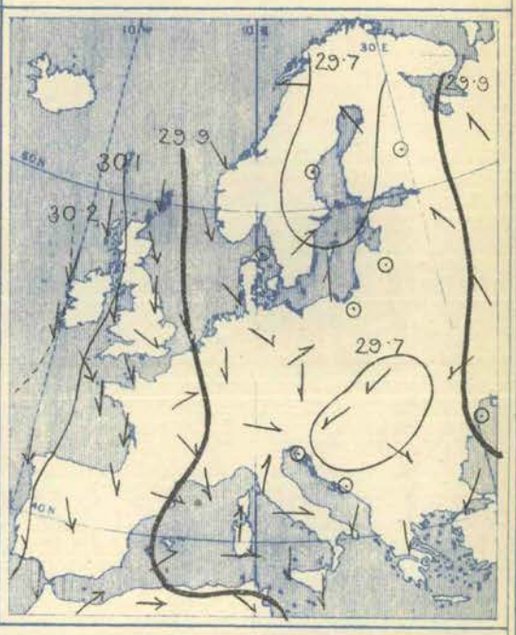


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern Europe and greater part of the Mediterranean; changeable from clear to cloudy over the United Kingdom; squally and showery on our north-east coasts; cloudy or overcast over northern and central Europe, with rain in several places, as well as in the south and south-west of France. Showers later over the northern parts of the United Kingdom, and steadier rains over many parts of southern, south-eastern, central, and northern Europe; thunderstorms at Biarritz, and over the English Channel and south-east of England.

Temperature decreasing over western Europe. Morning readings highest, 67° at Algiers, and exceeding 60° at several of the Mediterranean stations, 53° at Lyons, 52° at Jersey, and 50° at Scilly, and exceeding 50° over Austria-Hungary. Lowest, 36° at Archangel, Moscow, and Hernösand, 37° to 41° over the greater part of northern Europe. Not touching 60° at any of our own stations later, nor touching 50° in the north-east, but rising to 60° at Paris, 63° at Biarritz, and 66° at Nice. Succeeding night very cold over England.

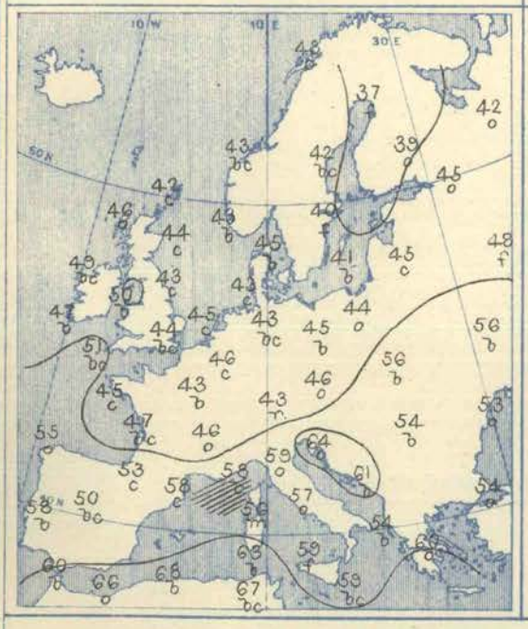
Wind Northerly to North-Westerly fresh to light over the British Islands and their neighbourhood, the Bay of Biscay, and the Iberian Peninsula; Westerly over north Germany; South-Westerly over the Baltic; Southerly to Easterly over Finland and Lapland; very variable over the Mediterranean and of little force; no general change observed later, but a local circulation developed over the north-east of France and the south-east of England in the evening.

Barometer highest, (1) 30·0 ins. and more to 29·9 ins. over the western parts of the British Islands, France, and Spain; (2) 30·0 ins. to 29·9 ins. over the south-east of Russia and the Black Sea. Lowest, below 29·3 ins. over the whole of central Europe, the Baltic, and Scandinavia, and below 29·5 ins. at Hernösand and Carlstadt. Continuing to rise over the British Islands and western Europe during the day.

Friday, 1st May.

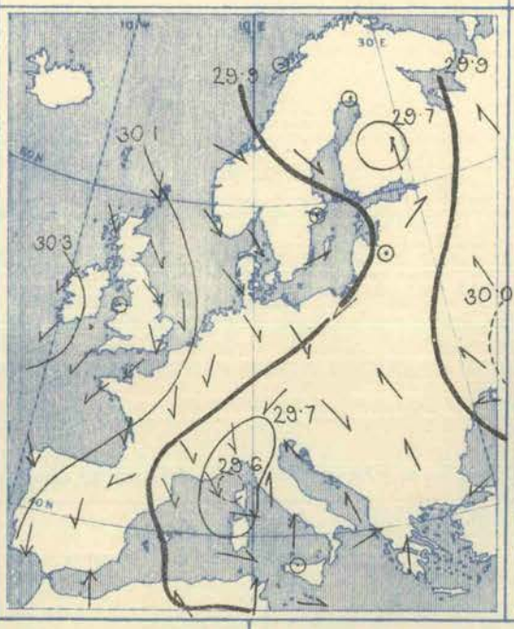
Temperature and Weather.

8 a.m.

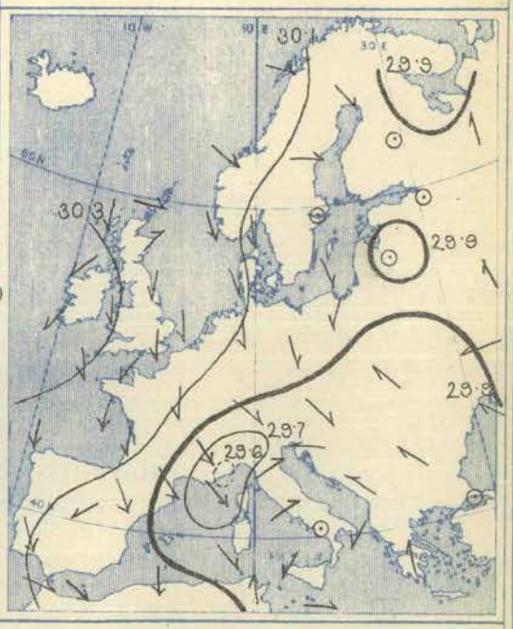


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair generally over nearly the whole of Europe, but unsettled over the southern parts of France and the north of Italy, with rain in several localities. Slight showers later in some northern regions, and considerable rain over south Germany and northern Italy; thunderstorm occurring at Biarritz. Very heavy clouds reported over England.

Temperature falling over central Europe and at Toulon. Morning readings highest, 68° at Algiers, and exceeding 60° on the southern and south-western shores of the Mediterranean, 64° at Trieste, 60° at Patras, 53° at Biarritz, 51° at Scilly, and exceeding 50° over the whole of south-eastern Europe. Lowest, 37° at Haparanda, 39° at Knopio, 42° at Sumburgh Head and Nairn, 43° at Shields and Cuxhaven. Failing to reach 60° in any part of our Islands later, and remaining below 50° on our north-east and east coasts. Exceeding 60° over southern Europe generally; exceeding 70° in many parts of Italy, and reaching 81° at Brindisi. Succeeding night very cold over England.

Wind light and anticyclonic (North-North-West to North-North-East) over the British Islands; moderate to fresh from the Northward over the Channel, the Bay of Biscay, and on the coasts of the Peninsula; North-Westerly on the eastern shores of the North Sea; South-Westerly over Finland. A well-defined cyclonic circulation of moderate winds prevailing over the northern parts of the Mediterranean. No decided change occurring later.

Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over the British Islands, France, and Spain; (2) 30·0 ins. and more over the southern parts of Russia. Lowest, below 29·6 ins. in a depression lying over the northern parts of the Mediterranean, and below 29·7 ins. in a secondary over Hungary, and in a separate depression over Finland. Rising over the whole of western and northern Europe during the day; depression over Finland moving away to the north-eastward.

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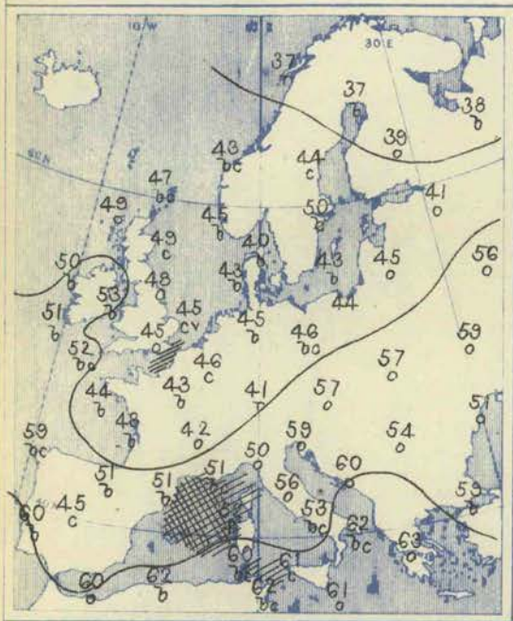
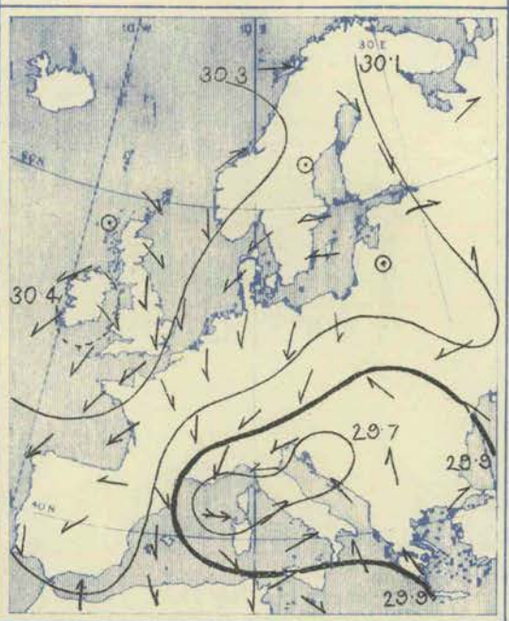
Saturday, 2nd May.

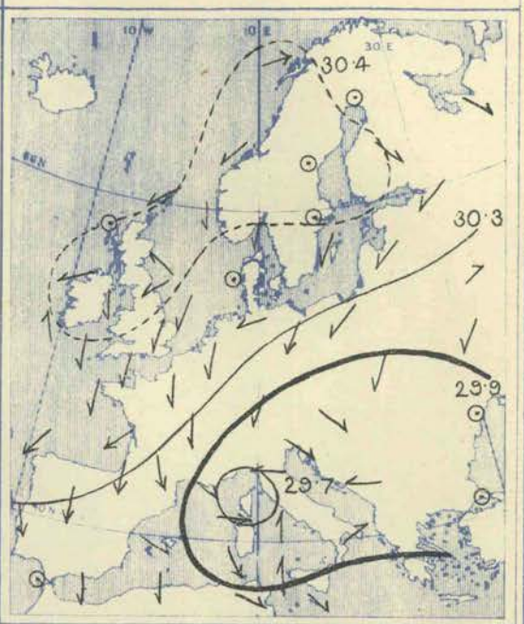
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and northern Europe generally, but cloudy or dull over the northern and eastern parts of Great Britain. Dull over Russia, Austria, south Germany, and northern Italy, with rain at Munich and Turin, as well as at Bilbao. Sky clearing later at several of our own eastern stations, but heavy rain falling at Munich, and a smaller quantity at Lyons. Aurora seen in many parts of the United Kingdom; display unusually brilliant in the north of Scotland. Thunderstorms occurring at Riga and Cracow.

Temperature risen a little over the north-western countries as a whole, but fallen in most other localities. Morning readings highest, 63° at Patras and La Calle, 62° at Brindisi, Algiers, and Sfax, and 61° at Palermo and Malta; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, (1) 36° at Le Mans, and 41° at Munich; (2) 37° at Bodö and Haparanda, and 38° at Archangel and Uleaborg; (3) 43° at York, Loughborough, and Dungeness. Daily maxima below 55° in many parts of our Islands, but thermometer reaching 59° at Leith and Parsonstown; exceeding 60° over southern Europe generally, and reaching 75° at San Fernando. Frost occurring in many parts of Great Britain at night.

Wind Northerly or North-Easterly over western and central Europe generally, but North-Westerly in the north and east of Scotland, and Westerly or South-Westerly in the west of Norway; light or moderate in force in nearly all places. Calm over the northern parts of Sweden; Southerly or South-Easterly at most of the Russian stations; South-Westerly in Italy; North-Westerly in Algeria. North-Easterly winds freshening later in the west of France; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over Ireland; 30·3 ins. and upwards in an anticyclone covering nearly the whole of north-western and northern Europe. Lowest, 29·7 ins. and less in an elongated depression lying over Corsica, northern Italy, and the south-western parts of Austria; 30·0 ins. and less in a large shallow area over northern Russia. No important change occurring during day, but Russian depression moving away to the eastward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week a long high pressure area stretched from the Bay of Biscay across France, South Germany, and Italy to south-eastern Europe, while some shallow depressions, which appeared off the north of Scotland and west of Norway, moved east-north-eastward to northern Europe. Temperature was rather high over the British Islands and north-western Europe, and the dominant wind current was Westerly to South-Westerly.

After Tuesday, however, there was a change. The high-pressure area referred to broke into two parts—one moving towards the Black Sea and Asia Minor, while the other moved westward to the Bay of Biscay. A new depression, which appeared off our northern coasts, began to move in a south-easterly direction over Europe, small secondaries were developed over the North Sea and our eastern districts; the wind shifted to North-West and North over the United Kingdom, and blew strongly, with showers of cold rain, hail, or snow during the daytime, while the nights became bright and frosty.

Still later, a new anticyclone began to spread over the Kingdom from the Atlantic, and as this occurred the winds moderated greatly, but the temperature remained low, especially at night, and the air was very dry. Depressions then appeared over the Mediterranean and south-eastern Europe, and with these conditions the week ended.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	35·0	+ 2·2	33	+ 3	SOUTHPORT	35·7	?	34	?
OSWALDKIRK (Yorkshire)	35·7	- 0·2	34	0	MANCHESTER (Oldham Road)	22·8*	?	22*	?
HARROGATE	38·6	?	37	?	COLWYN BAY	49·4*	?	48*	?
WORKSOP	31·3	- 3·0	30	- 3	TENBY	53·3*	+ 5·3	52*	+ 4
THURCASTON (Leicestershire)	39·1	+ 3·1	38	+ 2	NEWQUAY	66·0	+21·2	65	+ 21
MARGATE	49·6	+ 9,6	49	+ 11	TORQUAY	49·4*	+ 4·4	49*	+ 5
WESTBOURNE (Sussex)	43·4*	- 4·2	43*	- 4	ARLEY COTTAGE (County Cavan)	48·6	+11·6	47	+ 11
BRIGHTON	43·3	- 2·7	42	- 2	GUERNSEY	54·6*	+ 4·5	55*	+ 3
EASTBOURNE	42·6	- 3·4	42	- 2					

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METECROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 19.] *Third Series.* WEEK ENDING SATURDAY, MAY 9TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 110.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	30	61·1	43·1	51·6	5 above	67	+29	0	- 8	377	+116	305	-299
	1. SCOTLAND, EAST	72	32	62·8	42·0	51.8	6 above	69	+23	0	- 8	470	+134	408	-230
	2. ENGLAND, N.E.	67	28	55·2	41·3	47·8	1 above	44	- 1	2	- 3	440	+115	327	-215
	3. ENGLAND, EAST	70	30	56.9	39·5	47·7	1 below	50	- 9	7	+ 2	493	+ 67	388	-219
	4. MIDLAND COUNTIES	68	29	61·2	38·3	49·1	0 (average)	65	+ 4	10	+ 4	561	+104	372	-239
	5. ENGLAND, SOUTH	71	33	60·1	42·1	50·6	0 (average)	60	- 6	0	- 1	569	+ 88	237	-236
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	76	33	64·1	43·3	53·1	5 above	78	+27	0	- 5	503	+140	234	-221
	7. ENGLAND, N.W.	70	34	60·9	42·7	51·3	2 above	65	+11	0	- 4	517	+145	201	-251
	8. ENGLAND, S.W.	70	28	61·3	43·2	51·7	2 above	68	+ 8	0	- 2	631	+139	155	-204
	9. IRELAND, NORTH	78	35	62·2	45·2	53·2	5 above	78	+25	0	- 3	606	+169	162	-228
	10. IRELAND, SOUTH	70	33	62·5	44·5	53·0	3 above	77	+17	0	- 2	746	+191	89	-207
	—CHANNEL ISLANDS	64	42	59·0	47·6	53·0	2 above	77	+11	0	0	831	+237	39	-109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 110.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	6 less	95	+ 6	22·1	+ 3·5	62	+26	57	+24	313	- 44	22	- 3
	1. SCOTLAND, EAST	0	—	4 less	67	- 2	6·3	- 3·8	58	+20	54	+19	441	+ 33	31	+ 3
	2. ENGLAND, N.E.	1	less than ½	4 less	55	-12	4·8	- 3·1	57	+19	53	+18	414	+ 10	28	0
	3 ENGLAND, EAST	0	—	4 less	65	- 1	6·3	- 1·4	53	+ 9	51	+ 9	440	- 24	30	- 2
	4. MIDLAND COUNTIES	0	—	4 less	59	- 3	5·4	- 3·3	59	+19	56	+18	417	- 6	28	- 1
	5. ENGLAND, SOUTH	0	—	4 less	56	- 5	5·2	- 4·1	63	+18	61	+18	426	- 56	29	- 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	5 less	76	+ 1	14·5	- 2·6	60	+19	56	+17	393	- 26	27	- 2
	7. ENGLAND, N.W.	0	—	4 less	69	+ 1	10·1	- 0·3	68	+35	64	+31	380	+ 17	29	+ 1
	8. ENGLAND, S.W.	0	—	5 less	62	- 6	7·9	- 5·2	73	+26	70	+25	486	- 35	33	- 2
	9. IRELAND, NORTH	2	2	2 less	77	- 2	11.6	- 0·7	51	+12	47	+10	361	- 47	25	- 3
	10. IRELAND, SOUTH	1	1	5 less	67	- 6	10·1	- 3·7	57	+14	54	+13	409	- 71	28	- 5
	—CHANNEL ISLANDS	1	less than ½	3 less	67	- 8	5·4	- 5·9	71	+20	69	+17	552	- 31	37	- 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very fine and dry generally, with warm days and cold nights. Slight thunder and lightning were experienced, however, at some of the extreme southern stations on the 6th or 7th, as well as at Fort William.

Temperature was a little below the normal in England E., and just equal to the mean over England S. and the Midland counties, but considerably in excess in the extreme north-east, north, and north-west. In Scotland N. and W., and in Ireland N. the excess was 5°, and in Scotland E. 6°. The highest of the maxima occurred during the latter part of the period, and ranged from 78° in Ireland N., 76° in Scotland W., and 75° in Scotland N., to 67° in England N.E., and to 64° in the Channel Islands. The lowest of the minima were recorded between the 3rd and 5th, when the sheltered thermometer fell to 28° both in England N.E. and England S.W., to 29° in the Midland counties, and to between 30° and 34° in most other districts; in Ireland S., however, the lowest reading was 35°, and that in the Channel Islands 42°. Sharp ground frosts were experienced very generally during the earlier days of the week.

Rainfall was almost entirely absent from Great Britain, and much less than the mean in Ireland.

Bright Sunshine was very prevalent, and exceeded the mean in all districts; the percentage of the possible duration ranged from 70 in England S.W., and 69 in the Channel Islands, to 51 in England E., and 47 in Ireland N.

Barometer and Wind.—During the whole of the period the distribution of pressure over our Islands was anticyclonic, and the winds were generally from between North-East and East, and light or moderate in force. During the earlier part of the week, however, a light South-Westerly breeze prevailed in the extreme north and north-west.

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II.—DATA from which the SUMMARY on page 109 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	37	54·3	43·1	48·4	+ 4·7	45	0	2	0·02	−0·76	*	*	*	*
	Stornoway	70	39	60·6	45·3	52·5	+ 6·7	74	0	2	0·07	−0·45	55·1	+13·8	50	+13
	Wick	65	30	59·9	40·3	49·5	+ 3·8	60	5	1	0·02	−0·38	*	*	*	*
	Glencarron ⚓	73	39	65·8	43·6	54·0	+ 7·5	84	0	0	—	−0·93	*	*	*	*
	Fort Augustus ⚓	64	35	60·7	41·9	50·7	+ 2·4	61	0	0	—	−0·51	64·0	+34·1	59	+32
	Fort William ⚓	75	36	65·5	44·5	54·4	+ 5·9	87	0	1	0·06	−0·75	66·5	+28·8	61	+26
1. SCOTLAND, E.	Nairn	67	36	62·9	42·6	52·1	+ 4·6	71	0	0	—	−0·32	*	*	*	*
	Aberdeen	62	40	57·9	43·9	50·5	+ 4·0	60	0	0	—	−0·43	66·3	+25·3	61	+24
	Braemar ⚓	70	32	64·6	39·4	51·2	+ 7·0	75	7	0	—	−0·52	65·0†	+27·1†	50†	+25†
	Ochtertyre ⚓	72	36	69·1	42·6	55·1	+ 7·8	92	0	0	—	−0·47	*	*	*	*
	Leith	68	40	61·0	43·9	51·9	+ 3·5	69	0	1	0·03	−0·27	*	*	*	*
	Marchmont ⚓	65	34	61·0	39·7	49·7	+ 3·3	64	6	1	0·03	−0·47	59·8	+21·3	55	+18
2. ENGLAND, N.E.	Alnwick Castle	59	37	53·1	41·3	46·9	+ 1·3	37	2	1	0·05	−0·39	*	*	*	*
	Durham	67	28	58·7	33·3	47·9	+ 1·1	57	10	2	0·02	−0·36	52·9	+16·7	49	+16
	Shields	60	36	54·0	41·4	47·3	+ 0·8	40	2	0	—	−0·37	*	*	*	*
	Scarborough ℳ	56	34	50·5	43·3	46·7	− 0·7	33	0	0	—	−0·42	*	*	*	*
	York	67	30	62·3	40·3	50·6	+ 2·2	67	5	0	—	−0·37				
	Spurn Head	58	40	52·4	43·0	47·4	+ 0·2	38	0	1	0·01	−0·29	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	64	30	57·2	38·8	47·5	− 1·4	52	9	0	—	−0·37	57·0	+12·5	54	+12
	Yarmouth	55	38	51·9	42·6	47·0	− 0·9	35	0	0	—	−0·35	*	*	*	*
	Geldeston	62	32	55·1	39·5	46·8	− 1·5	44	7	1	0·01	−0·29	53·4	+ 6·4	51	+ 6
	Cambridge	70	34	60·9	38·1	48·8	− 1·4	64	11	0	—	−0·38	50·0	+ 7·0	48	+ 8
	Rothamsted	66	33	59·5	38·7	48·5	− 0·7	59	9	0	—	−0·48	51·4	+ 9·6	49	+10
4. MIDLAND COUNTIES	Harrogate ℳ	63	31	59·2	39·2	48·6	+ 1·1	58	8	0	—	?	58·5	?	55	?
	Bawtry (Hesley Hall)	68	29	63·1	35·3	48·4	− 0·8	73	19	0	—	−0·38	*	*	*	*
	Loughborough	65	29	61·9	36·9	48·7	− 1·5	68	14	0	—	−0·39	*	*	*	*
	Stamford (Ketton Hall)	65	32	61·3	37·3	48·6	− 1·0	66	13	0	—	−0·40	*		*	*
	Cheadle ℳ	64	34	60·9	39·4	49·5	+ 2·1	63	7	0	—	−0·45	*		*	*
	Shirley (near Solihull)	66	32	60·5	38·1	48·6	− 0·6	63	11	0	—	?	*	*	*	*
	Churchstoke ℳ	65	32	60·5	38·1	48·6	+ 1·3	63	11	0	—	−0·40	58·9	+18·9	56	+18
	Hereford ℳ	66	32	62·5	40·6	50·9	+ 1·5	68	4	0	—	−0·40	*	*	*	*
	Cirencester	66	31	60·7	38·7	49·0	+ 0·6	63	9	0	—	−0·42	68·8	+25·3	66	+25
	Oxford	63	35	61·4	39·6	49·9	+ 0·4	65	7	0	—	−0·37	53·8	+11·9	51	+11
5. ENGLAND, S.	London	68	36	63·3	41·9	52·0	+ 0·7	70	0	0	—	−0·38	51·4†	+16·6†	49†	+13†
	North Foreland	55	40	51·7	43·3	47·3	− 0·4	37	0	0	—	?	*	*	*	*
	Dungeness	59	33	57·0	41·9	49·0	− 0·7	49	0	0	—	−0·32	*	*	*	*
	Hastings (St. Leonards)	64	39	59·3	42·6	50·5	− 0·1	60	0	0	—	−0·34	73·8	+25·6	71	+25
	Southampton	71	35	65·9	41·9	53·2	+ 1·3	79	0	1	0·01	−0·37	65·1	+16·6	61	+16
	Hurst Castle	65	37	61·9	42·6	51·7	+ 1·3	68	0	0	—	−0·32	*	*	*	*
	Stowell ℳ	67	34	61·7	40·5	50·5	+ 0·3	66	4	0	—	−0·45	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	76	36	65·9	44·2	54·4	+ 5·5	87	0	0	—	−0·80	*	*	*	*
	Glasgow	67	41	63·1	45·4	53·7	+ 5·9	82	0	0	—	−0·40	47·5	+13·0	44	+12
	Ardrossan	69	42	62·6	45·4	53·5	+ 4·4	81	0	0	—	−0·41	*	*	*	*
	Glenlee ⚓	72	33	66·3	39·2	52·1	+ 4·2	82	8	0	—	−0·55	*	*	*	*
	Douglas (Isle of Man)	67	35	62·1	42·3	51·6	+ 3·1	67	0	0	—	−0·42	72·9	+25·1	68	+23
7. ENGLAND, N.W.	Stonyhurst	64	34	60·9	41·6	50·7	+ 3·0	63	1	0	—	−0·48	73·0	+33·0	68	+30
	Blackpool ℳ	70	35	63·6	39·9	51·0	+ 1·9	72	6	0	—	−0·35	76·1	+36·0	71	+32
	Manchester (Prestwich)	64	35	60·8	40·4	50·0	+ 1·8	63	4	0	—	−0·41	64·3	?	60	?
	Liverpool Obsy. (Bidston)	67	41	61·7	44·6	52·6	+ 2·7	74	0	0	—	−0·31	*	*	*	*
	Llandudno ℳ	64	40	59·4	44·3	51·4	+ 1·5	66	0	0	—	−0·37	*	*	*	*
	Holyhead	63	43	59·0	45·6	51·9	+ 2·7	69	0	0	—	−0·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	28	65·9	38·9	51·6	+ 2·4	80	9	0	—	−0·51	*	*	*	*
	Pembroke	62	42	58·1	45·6	51·5	+ 3·2	67	0	0	—	−0·37	69·4	+21·4	66	+21
	Arlington (N. Devon)	69	32	62·4	41·4	51·3	+ 2·6	68	2	0	—	−0·55	*	*	*	*
	Cullompton ℳ	68	33	63·3	41·4	51·7	+ 1·1	70	2	0	—	−0·65	68·9	+26·9	66	+24
	Falmouth	62	42	58·4	46·3	52·0	+ 2·1	70	0	0	—	−0·65	72·3	+23·3	70	+23
	Plymouth	67	40	61·8	44·8	52·8	+ 1·4	76	0	0	—	−0·45	74·8	+28·6	72	+27
	Prawle Point	62	41	59·0	44·1	51·1	+ 1·8	64	0	0	—	−0·52	*	*	*	*
9. IRELAND, N.	Malin Head	59	42	56·3	47·1	51·4	+ 3·2	66	0	3	0·39	?	*	*	*	*
	Londonderry	78	42	69·0	46·6	57·1	+ 7·8	106	0	1	0·02	−0·39	*	*	*	*
	Edenfel (Omagh)	72	39	63·4	45·3	53·8	+ 5·1	83	0	1	0·29	−0·17	*	*	*	*
	Belmullet	71	?	62·3	?	?	?	?	?	2	0·60	+0·09	*	*	*	*
	Markree Castle	71	38	63·3	44·0	53·1	+ 5·4	78	0	2	0·34	−0·12	45·3	+ 5·3	42	+ 4
	Armagh	69	36	61·6	44·4	52·4	+ 4·1	73	0	2	0·09	−0·39	49·0	+10·7	46	+10
	Donaghadee	70	35	60·4	43·7	51·6	+ 3·3	67	0	0	—	−0·41	*	*	*	*
	Edgeworthstown	67	42	61·3	45·3	52·8	+ 3·9	76	0	2	0·08	−0·43	*	*	*	*
10. IRELAND, S.	Dublin	65	38	60·2	45·4	52·4	+ 2·6	73	0	2	0·02	−0·43	63·7	+18·5	60	+17
	Parsonstown	70	42	63·7	45·6	54·1	+ 5·2	85	0	1	0·05	−0·43	48·8	+ 8·8	46	+ 8
	Kilkenny	67	33	64·3	43·6	53·3	+ 3·4	79	0	0	—	−0·48	*	*	*	*
	Roche's Point	61	43	59·9	47·6	53·4	+ 2·7	80	0	0	—	−0·70	*	*	*	*
	Valencia	67	35	62·1	40·9	50·9	+ 0·2	67	3	1	0·08	−0·72	57·7	+12·8	55	+12
	Killarney	68	34	64·7	40·0	51·6	+ 1·9	76	6	2	0·12	?	*	*	*	*
	Foynes	69	45	62·7	48·2	55·0	+ 5·5	91	0	2	0·20	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	47	58·0	49·3	53·4	+ 2·7	80	0	0	—	−0·37	66·6	?	64	?
	Jersey	64	42	59·0	45·9	52·5	+ 0·4	74	0	2	0·08	−0·20	80·9	+27·9	79	+27

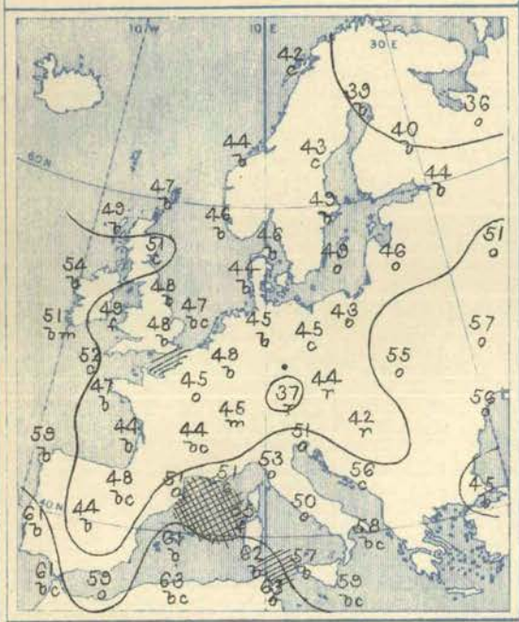
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 3rd May.

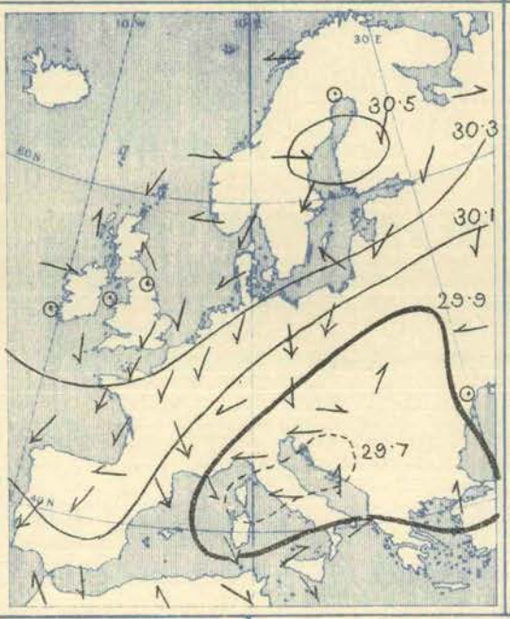
Temperature and Weather. 8 a.m.



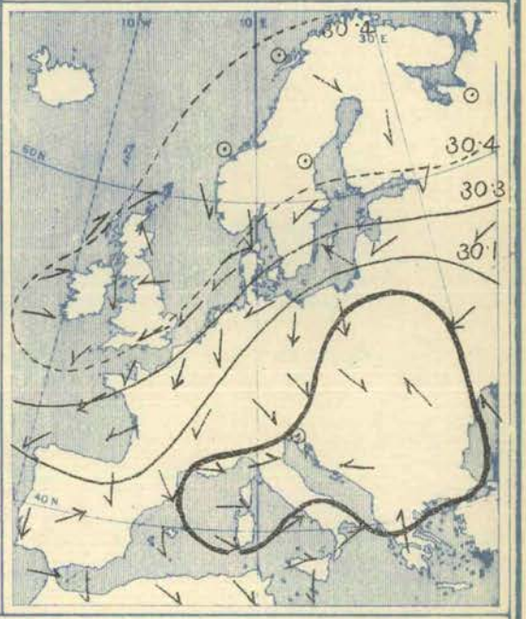
Weather in morning fine over western, northern, and southern Europe generally, but dull and misty over the St. George's Channel. Dull in Germany, Austria, northern Italy, and the central and southern parts of Russia; rain falling over south Germany, as well as at Breslau and Vienna. Rain occurring later over the central parts of the Continent generally, and also over northern Italy—amount large at Munich. Thunderstorms reported in Austria, as well as at Riga and Cracow.

Temperature risen a little over the north-western countries; fallen or changed irregularly elsewhere. Morning readings highest, 63° at Oporto and Algiers, 62° at Cagliari and La Calle, and 61° at Lisbon, San Fernando, and Palma; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, (1) 36° at Archangel, 39° at Uleaborg, 40° at Kuopio, and 41° at Haparanda; (2) 37° at Munich, and 42° at Vienna; (3) 43° at Loughborough, and 45° at York. Rising during day to between 55° and 60° in most parts of the United Kingdom. Exceeding 60° in France, and exceeding 70° in Spain and southern Italy. Frost occurring over Great Britain at night.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

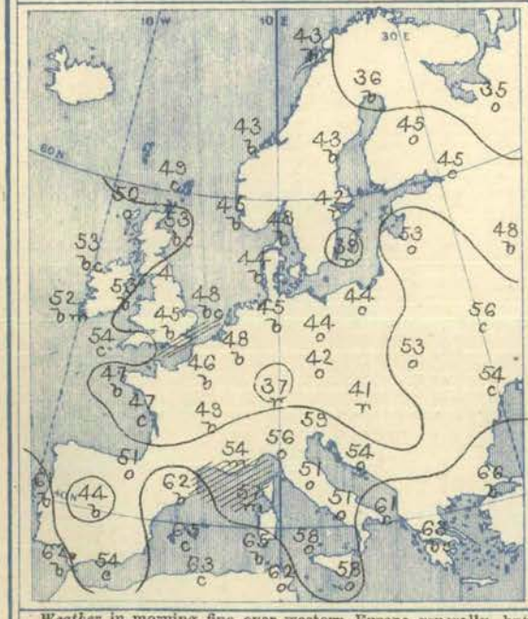


Wind light to fresh from the North-Eastward over England, France, Spain, and central Europe generally, but North-Westerly in the south of France. Calm or variable in Ireland and the south of Scotland; Southerly in the north of Scotland. Variable over the northern parts of Scandinavia, as well as in Austria and Italy; light from the Eastward or South-Eastward in the south of Russia. No important change occurring during day, but wind increasing to a strong gale from North-North-East at Swinemünde.

Barometer highest, 30·52 ins. at Hernösand, and 30·51 ins. at Kuopio; 30·3 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe. Lowest, 29·8 ins. and less in two depressions—one lying over Austria, and the other over northern Italy and the northern parts of the Adriatic and Mediterranean. Depressions filling up gradually during day, and barometer rising over the central and southern countries.

Monday, 4th May.

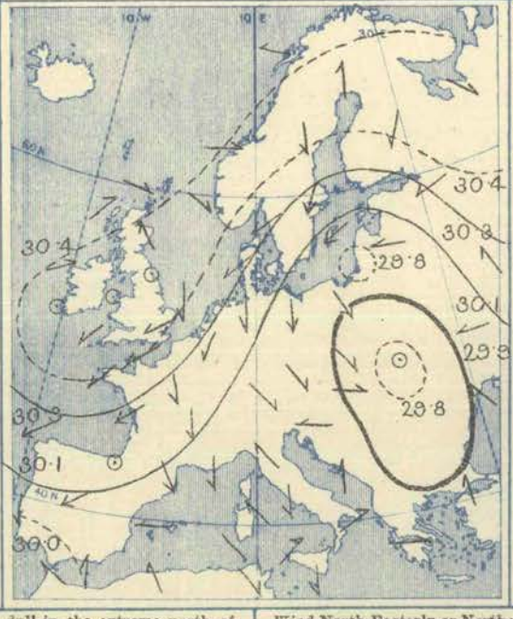
Temperature and Weather. 8 a.m.



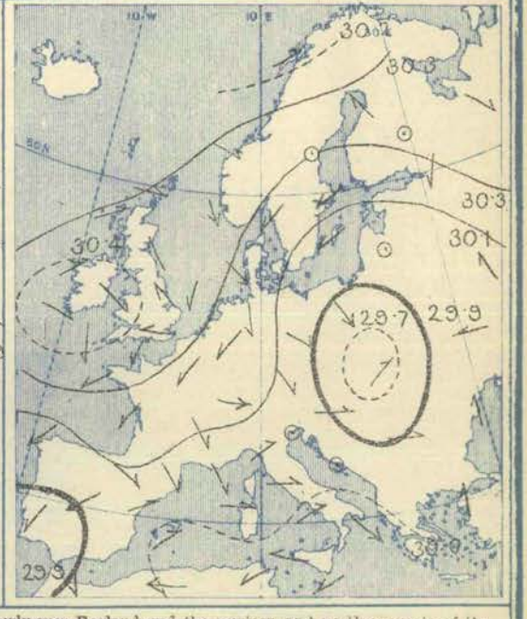
Weather in morning fine over western Europe generally, but dull in the extreme north of Scotland. Dull over all the more central parts of the Continent, and also in Italy, with rain over the south of Sweden and the eastern and southern parts of Germany, as well as at Vienna and Patras. Rain falling later in the extreme north and north-west of our Islands, rather heavily in the north of Ireland; thunder heard at Wick at night. Heavy rain falling also at Bodö and in some parts of Germany and Austria.

Temperature risen in France and Italy, but changed irregularly elsewhere. Morning readings highest, 66° at Constantinople, 65° at Palma and Cagliari, 63° at Athens and Algiers, and 62° at Barcelona and San Fernando; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, (1) 35° at Archangel, 36° at Haparanda, and 39° at Wisby; (2) 37° at Munich, and 41° at Vienna. Rising during day to 60° and upwards in several parts of the United Kingdom, and reaching 68° at Leith; exceeding 65° over southern Europe generally, and rising to 75° at Oporto. Ground frost occurring over the central and south-eastern parts of England at night.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

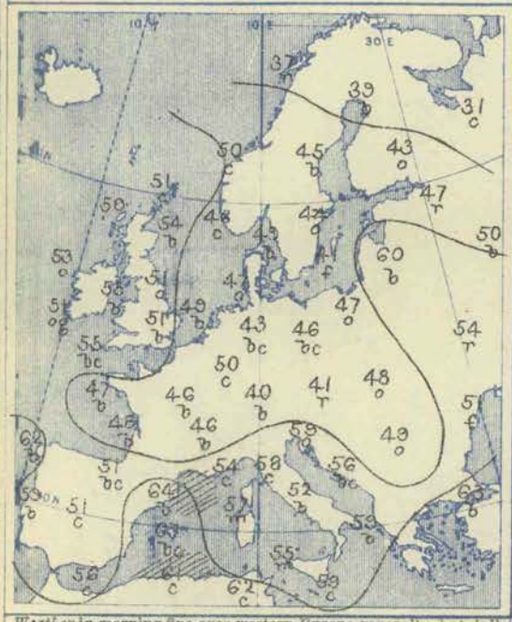


Wind North-Easterly or Northerly over England and the western and northern parts of the Continent generally; light or moderate in force in most places, but strong over the Baltic and south of Sweden. Light from West or South-West over Scotland and the north of Ireland; variable in the south of Ireland. Westerly or North-Westerly over Austria and south Germany; light from the Eastward or South-Eastward in Russia. Variable over Italy and the Mediterranean. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards in an anticyclone stretching from our Islands across the North Sea and Scandinavia to northern Russia. Lowest, 29·8 ins. and less in a depression over Galicia; 29·9 ins. and less in another disturbance over eastern Prussia; 30·0 ins. and less in an area lying over Morocco and the south of the Spanish Peninsula. Anticyclone giving way gradually during day, but general distribution of pressure remaining unchanged.

Tuesday, 5th May.

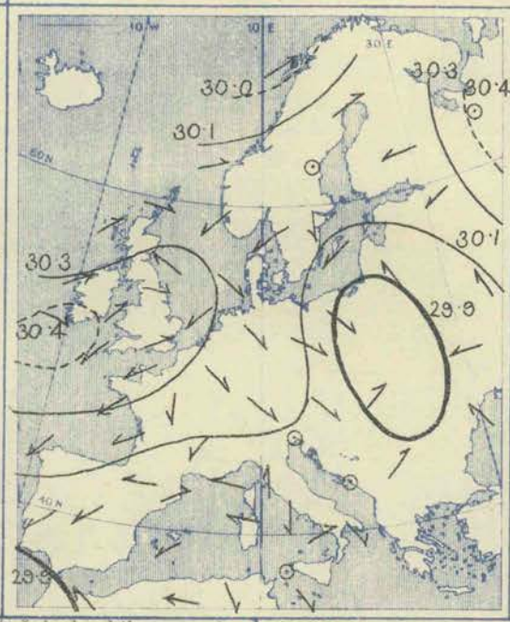
Temperature and Weather. 8 a.m.



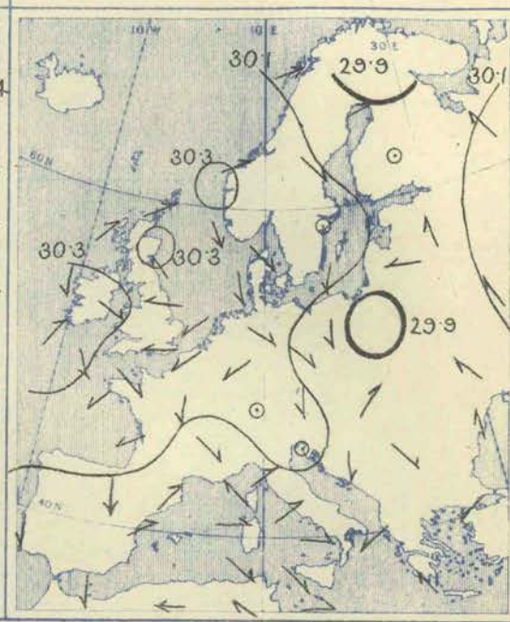
Weather in morning fine over western Europe generally, but dull in Ireland and the west and north of Scotland, with rain at Stornoway and Malin Head. Dull over Russia, eastern Germany, Austria, and northern Italy, with rain in several places. A little rain falling later in Ireland and the north of Scotland, as well as at Jersey, and larger amounts in the west of Norway, as well as at Turin. Lightning seen at Jersey in evening.

Temperature risen a little in most countries, but fallen in many parts of Germany and Austria. Morning readings highest, 67° at Palma, 64° at Barcelona and Oporto, and 62° at Corunna and La Calle; above 55° at the Mediterranean and Spanish coast stations generally; touching 58° at Prawle Point, and 57° at Wick. Lowest, (1) 31° at Archangel, 37° at Bodö, and 39° at Haparanda; (2) 40° at Breslau and Munich, and 41° at Münster and Vienna. Rising during day to between 60° and 65° in many parts of Great Britain and France; reaching 67° at Nairn and Leith, and 71° at Perpignan. Ground frost occurring over central England at night.

Barometer and Wind. 8 a.m.



6 p.m.

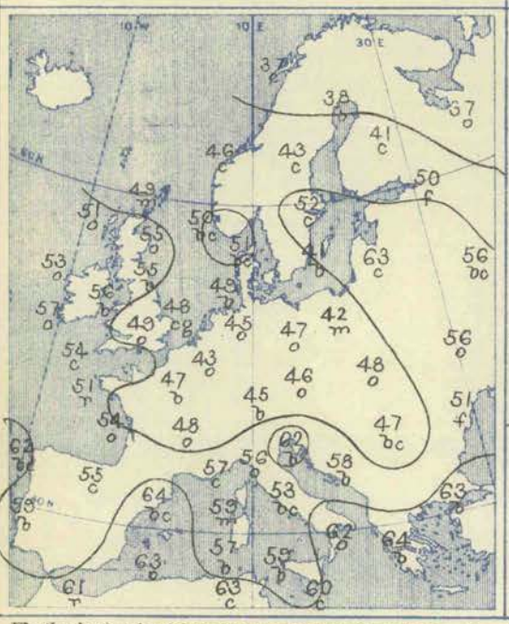


Wind light from the Westward or South-Westward over Ireland and the northern parts of Great Britain, and strong from the same quarter at Bodö. Light from the Northward or North-Eastward over the southern parts of England, and moderate to fresh from North-East or East over the Bay of Biscay and Spain. Easterly or North-Easterly in Finland; Northerly in the south of Scandinavia; North-Westerly over Denmark, Germany, and Austria; South-Easterly in the south of Russia. Variable over Italy and the Mediterranean. Subsequently veering to the North-Westward in Ireland, and becoming variable on our east and south-east coasts; no decided change occurring elsewhere.

Barometer highest, 30·3 ins. to 30·4 ins. and upwards in an anticyclone covering Ireland, England, and the north of France, and also in another system over northern Russia. Lowest, 29·9 ins. and less in a large shallow depression over western Russia, and also in another shallow system over Morocco; 30·0 ins. and less in a third area lying off the north-west of Norway. Anticyclones both giving way slowly during day, and barometer falling in most parts of western and northern Europe.

Wednesday, 6th May.

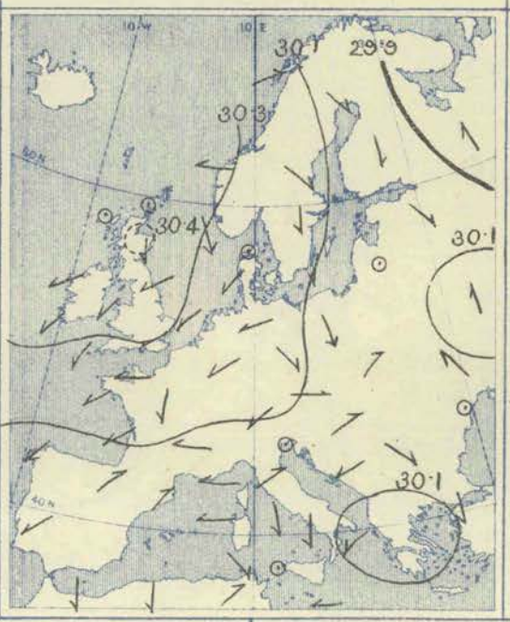
Temperature and Weather. 8 a.m.



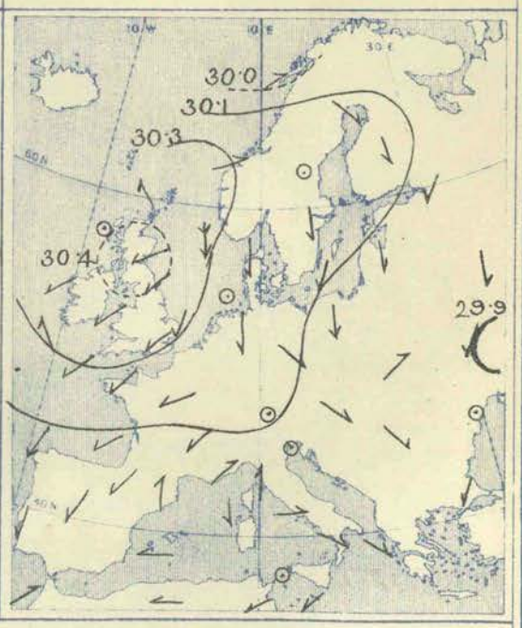
Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull in places, and foggy on our own extreme north-west coasts. Dull over the south of Russia, eastern Germany, and some parts of northern Italy, with rain at Breslau and Turin. No important change occurring over our Islands during day, but rain falling in the west of Norway, as well as in some parts of Germany, Austria, northern Italy, and central Spain. Thunderstorm occurring at Toulon during day, and thunder heard at Hurst Castle at night.

Temperature changed very irregularly. Morning readings highest, (1) 64° at Barcelona and Patras, and 63° at Constantinople, Algiers, and La Calle; (2) 63° at Riga, and 60° at Memel; above 55° over the south of Ireland. Lowest, (1) 37° at Bodö and Archangel, 38° at Uleaborg, and 41° at Haparanda, Wisby, and Kuopio; (2) 42° at Neufahrwasser, 43° at Brussels, and 44° at Warsaw. Rising during day to 60° and upwards in many parts of our Islands, and to 66° at Parsonstown; exceeding 65° also at most of the French, Spanish, and Italian stations, and reaching 73° at Oporto and Palma. Ground frost occurring over central England at night.

Barometer and Wind. 8 a.m.



6 p.m.



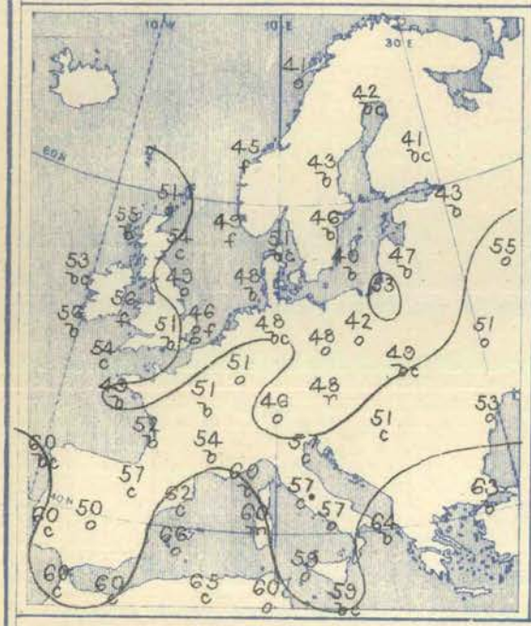
Wind North-Easterly or Northerly over the greater part of western and southern Europe, but calm in the north of Scotland. Light to moderate from the Northward or North-Westward over Scandinavia, Denmark, Germany, and western Russia; Westerly in Austria; Southerly over the central and southern parts of Russia. No important change occurring during day.

Barometer highest, 30·40 ins. at Wick and Aberdeen; 30·2 ins. and upwards in an anticyclone covering the whole of north-western Europe. Lowest, 29·8 ins. and less in a shallow depression over northern Russia; 30·0 ins. and less over Algeria, the south of Spain, and the neighbouring parts of the Mediterranean. No important change occurring over western Europe during day; depression over northern Russia moving eastwards, but new disturbance approaching the north-west of Norway in evening.

Thursday, 7th May.

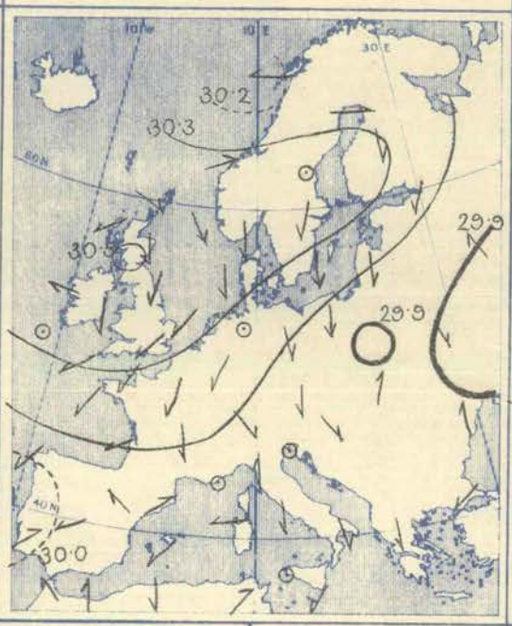
Temperature and Weather.

8 a.m.

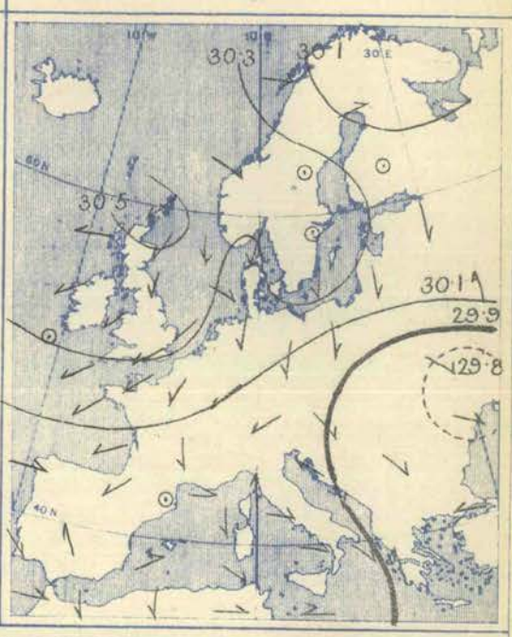


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of Europe, but dull at several of our own northern and eastern stations, with fog in places. Dull also over central and southern Russia and the greater part of Germany, with rain at Prague. Slight rain falling later over the north-east of England, and larger quantities at Bodö, as well as in Bavaria, Austria, and northern Italy; weather remaining very dry over western Europe generally. Aurora seen at Aberdeen at night.

Temperature changed very irregularly. Morning readings highest, (1) 66° at Palma, 65° at Oporto and Algiers, and 64° at Brindisi; (2) 62° at Wick; (3) 58° at Roche's Point, 56° at Holyhead, Valencia (Ireland), and Pembroke (above 50° in most parts of the United Kingdom). Lowest, 40° at Wisby, 41° at Bodö and Kuopio, 42° at Haparanda, and 43° at Hernösand and St. Petersburg. Rising during day to between 60° and 65° in many parts of the United Kingdom; reaching 67° at Valencia and in London, and 68° at Ardrossan. Exceeding 70° over Spain and the south of France, and reaching 76° at Perpignan, and 77° at Oporto.

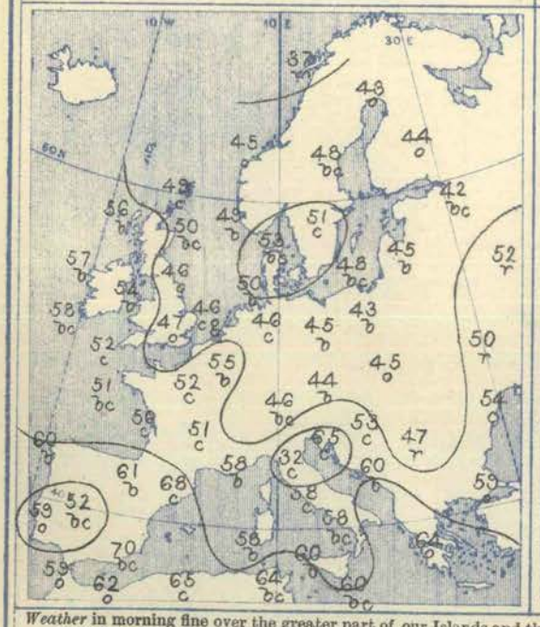
Wind light to moderate from the North-Eastward or Eastward over the greater part of our Islands and France, but calm in the extreme south of France, and rather variable over the Spanish Peninsula. Calm over the northern parts of Sweden; Northerly over Denmark, the Baltic, and the south of Scandinavia, and strong in places. Light from the North-Westward over the greater part of Germany, Austria, and Italy; light from the Southward over the central and southern parts of Russia. No important change occurring over western Europe during day, but Northerly wind at Skudesnaes increasing to the force of a fresh gale.

Barometer highest, 30·50 ins. at Aberdeen and Leith; 30·2 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe. Lowest, 29·9 ins. and less in a large shallow depression over central Russia, and also in a small secondary system near Warsaw: 30·0 ins. and less in a shallow area over Portugal. Barometer falling slightly over western Europe during day, but general distribution of pressure remaining unchanged.

Friday, 8th May.

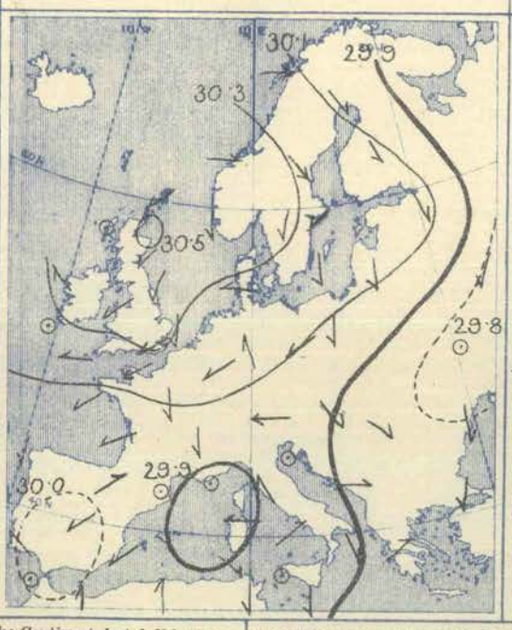
Temperature and Weather.

8 a.m.

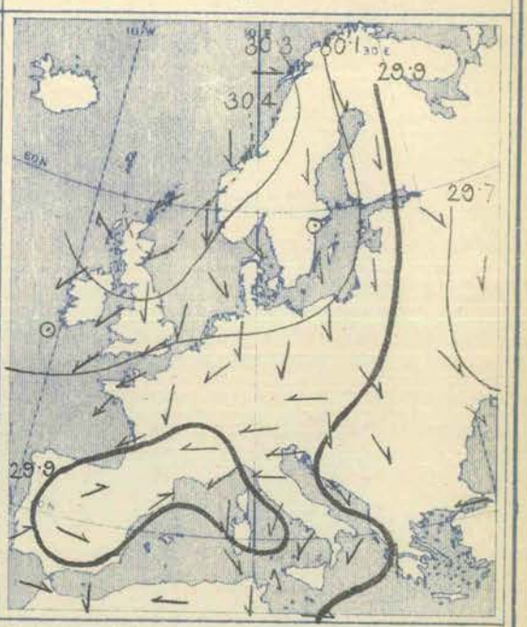


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the eastern parts of Great Britain, with showers at Spurn Head. Dull in Portugal, and also over Russia, Austria, and Greece, with rain at Moscow, Kiev, Vienna, and Hermanstadt. No important change occurring over western Europe during day, but rain falling in several parts of Spain and northern Italy; thunderstorm occurring at Laghouat; thunder at Bordeaux, and lightning at Perpignan. Faint aurora seen at Wick.

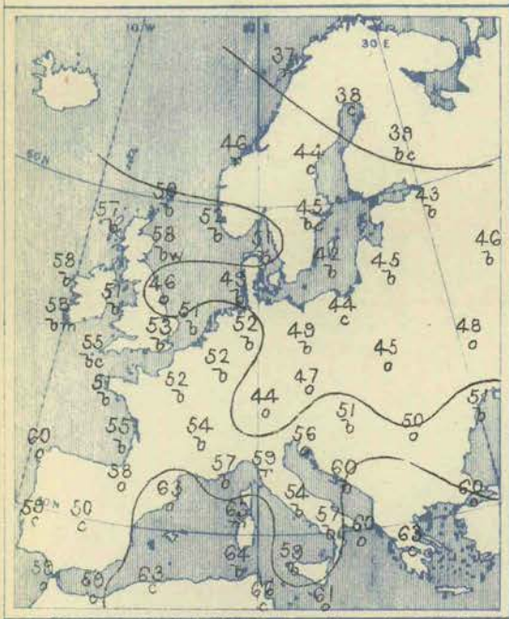
Temperature risen in Ireland, and also in Sweden, Spain, Italy, and Austria, fallen in most other countries. Morning readings highest, 68° at Bilbao and Barcelona, and 65° at Trieste, Palma, and Algiers; above 60° at several of the Mediterranean stations, and very little below it in some parts of Ireland and the west of Scotland. Lowest, (1) 37° at Bodö, 42° at St. Petersburg, and 43° at Uleaborg; (2) 40° at Breslau, and 43° at Neufahrwasser; (3) 45° at Oxford. Rising during day to 60° and upwards over the central and southern parts of England, to 65° and upwards in the west of Scotland, and to 70° or a little above it at some of the Irish stations. Exceeding 70° in France and Spain, and reaching 77° at Perpignan.

Wind North-Easterly over England, France, and the Netherlands; light to moderate in force generally, but fresh at some of the Channel stations; Easterly or South-Easterly in Ireland and Scotland. Westerly in the west of Norway; North-Westerly over the northern parts of Sweden and Russia, and also over Austria and south Germany, but North-Easterly at the Baltic stations. Variable over Italy and also in the south of Russia; South-Westerly in Greece. No important change occurring over western Europe during day.

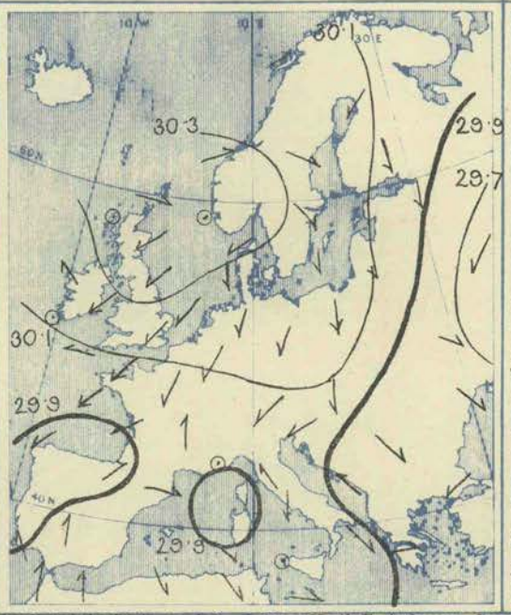
Barometer highest, 30·51 ins. at Christiansund; 30·50 ins. at Wick; 30·3 ins. and upwards in an anticyclone covering the greater part of our Islands, the North Sea, and Scandinavia. Lowest, 29·8 ins. and less in a large depression over the central and southern parts of Russia; 29·9 ins. and less in a shallow system lying off the south of France. Anticyclone giving way gradually during day, and barometer falling over western Europe generally; large shallow depression appearing over Spain and the south of France.

Saturday, 9th May.

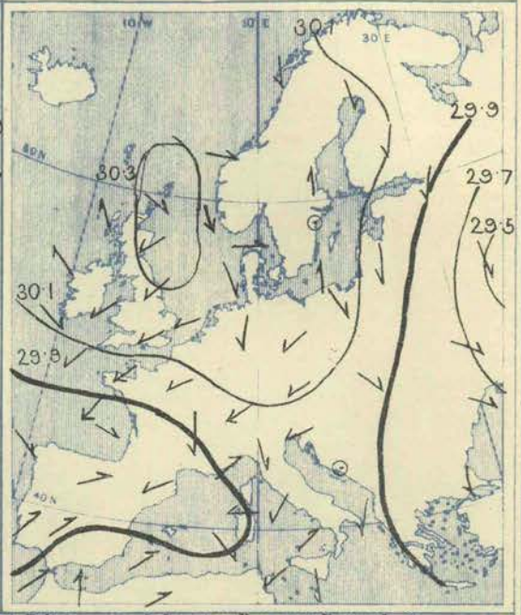
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of our Islands and the Continent, but dull on the north-east coasts of England. Dull over central Russia, and also over the Spanish Peninsula and the extreme south of France; rainy on the west coasts of Norway. No important change occurring over western Europe during day, but rain falling in Spain, northern Italy, and the south of France—heavily at Turin and Leghorn; thunderstorms occurring at several of the central and southern French stations. Aurora seen at Wick.

Temperature changed little and irregularly. Morning readings highest, 66° at Sfax, and 63° at Barcelona, Athens, Algiers, and La Calle; above 55° at the Mediterranean and Spanish coast stations generally, and also in many parts of Ireland and Scotland. Lowest, (1) 37° at Bodö, 38° at Haparanda, 39° at Uleaborg and Kuopio, and 42° at Wisby; (2) 41° at Cracow, and 44° at Munich and Vienna. Rising during day to 65° and upwards in many parts of the United Kingdom, and to 70° at Stornoway and Cambridge, but not exceeding 59° at Shields and Spurn Head. Exceeding 70° at many of the French and Spanish stations, and reaching 77° at Limoges.

Wind North-Easterly over Great Britain as a whole, as well as over Denmark, Germany, France, and the Netherlands; fresh or strong in force on some of the more exposed parts of the English coasts. Light to moderate from the Eastward in Ireland; calm or variable in the north of Scotland. South-Westerly in the west of Norway; North-Westerly or Northerly over Sweden, Russia, and Austria; variable in Italy; Southerly or South-Easterly in Spain. Subsequently shifting to the Westward in the south-west of France; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the northern parts of Great Britain and the North Sea, and the south of Norway; 30·1 ins. and upwards in an anticyclone covering the greater part of northern and north-western Europe. Lowest, 29·6 ins. and less in a depression over central Russia; 29·9 ins. and less in two shallow areas—one lying over Corsica and Sardinia, and the other over Portugal, the north of Spain, and the south-west of France. No decided change occurring over western Europe during day.

GENERAL NOTES.

During this week the weather over nearly the whole of western and northern Europe was influenced by a large anticyclonic system, the central portion of which lay for the most part over our Islands and the North Sea. The prevailing winds were mostly North-Easterly, and the weather fair and dry, but in the extreme north and north-west of our Islands, and also in the west of Norway South-Westerly breezes were experienced during the earlier part of the week, with occasional rain, due to depressions which passed outside the Norwegian coasts. Later on the North-Easterly current extended to the northern stations, and the weather became generally fine, with high temperatures, especially in Ireland and the west of Scotland.

Over central and southern Europe the conditions were less settled. At the commencement of the time a large and rather complex depression lay over Italy and the south-eastern countries generally, and occasioned rain in many parts of those regions, as well as in Austria and Germany, with local thunderstorms. On the 4th and 5th the depression moved eastwards and gradually dispersed, but towards the close of the week further shallow disturbances appeared over southern Europe and the Mediterranean, the weather in their neighbourhood being generally changeable and unsettled, with heavy falls of rain over northern Italy, smaller amounts in other localities, and thunderstorms in several parts of France, as well as in Algeria.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	41·9	+ 7·0	39	+ 7	SOUTHPORT	62·8	?	59	?
OSWALDKIRK (Yorkshire)	61·2	+23·5	57	+ 21	MANCHESTER (Oldham Road)	57·2*	?	54*	?
WORKSOP	59·5	+23·0	56	+ 22	COLWYN BAY	77·2*	?	73*	
THURCASTON (Leicestershire)	52·8	+14·0	50	+ 13	TENBY	75·3*	+26·5	72*	+ 25
MARGATE	51·7	+ 9·6	50	+ 11	NEWQUAY	78·0	+32·0	75	+ 30
WESTBOURNE (Sussex)	60·9*	+11·1	59*	+ 12	TORQUAY	69·2*	+22·7	67*	+ 22
BRIGHTON	67·6	+20·3	65	+ 23	ARLEY COTTAGE (County Cavan)	57·4	+17·7	54	+ 17
EASTBOURNE	72·6	+25·3	70	+ 24	GUERNSEY	64·8*	+11·8	63*	+ 8

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Jan. 11th, 1896.	Edgworthstown	48	22	44·4	34·8	39·8	+ 1·3	7	28	0	—	- 0·62	—	—	—	—
,, ,, ,, 18th, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	11·5	- 1·5	20	- 3
,, ,, ,, 25th, ,,	York	—	—	—	—	—	—	—	—	—	—	—	7·6	- 0·4	13	- 1
,, ,, Feb. 1st, ,,	Laudale	50	34	47·9	38·7	43·5	+ 3·4	24	9	7	1·52	- 0·43	—	—	—	—
,, ,, ,, ,, ,,	Blackpool	52	39	47·0	40·9	44·1	+ 5·2	19	3	3	0·32	- 0·58	12·7	+ 2·2	22	+ 4
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	17·3	+ 1·7	28	+ 2
,, ,, ,, 22nd, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	12·5	- 10·3	18	- 14
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	27·8	+ 5·9	39	+ 8
,, ,, Mar. 7th, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	17·7	- 10·5	23	- 14
,, ,, ,, ,, ,,	Llandudno	—	—	—	—	—	—	—	—	—	—	—	16·4	- 5·4	22	- 7
,, ,, ,, 21st, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	26·9	- 7·5	33	- 9
,, ,, ,, 28th, ,,	Londonderry	57	35	50·8	38·8	44·6	+ 1·8	32	9	5	1·18	+0·53	—	—	—	—
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	34·7	- 2·9	40	- 4

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 20.] *Third Series.* WEEK ENDING SATURDAY, MAY 16TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

	DISTRICTS. (See p. 116.)	Temperature of the Air. Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	77	38	62·1	44·4	52·7	5 above	75	+33	0	− 6	452	+149	305	−305
	1. SCOTLAND, EAST	80	35	66·5	43·3	54·2	6 above	85	+33	0	− 5	555	+167	408	−235
	2. ENGLAND, N.E.	80	35	62·1	43·3	52·2	4 above	71	+19	0	− 3	511	+134	327	−218
	3. ENGLAND, EAST	77	34	64·9	43·0	53·3	3 above	79	+13	0	− 4	572	+ 80	388	−223
	4. MIDLAND COUNTIES	81	35	69·5	42·3	55·1	5 above	92	+24	0	− 4	653	+128	372	−243
	5. ENGLAND, SOUTH	79	42	66·9	47·0	56·4	5 above	101	+28	0	− 1	670	+116	237	−237
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	76	35	66·8	45·4	55·4	6 above	94	+37	0	− 3	597	+177	234	−224
	7. ENGLAND, N.W.	75	40	60·2	47·3	56·2	6 above	99	+39	0	− 3	616	+184	201	−254
	8. ENGLAND, S.W.	85	37	69·6	48·4	58·4	8 above	115	+50	0	− 1	746	+189	155	−205
	9. IRELAND, NORTH	79	37	66·9	47·4	56·5	7 above	102	+43	0	− 2	708	+212	162	−230
	10. IRELAND, SOUTH	77	37	68·7	47·0	57·2	6 above	106	+41	0	− 1	852	+232	89	−208
	—CHANNEL ISLANDS	72	44	65·2	51·9	58·2	6 above	113	+41	0	0	944	+278	39	−109

	DISTRICTS. (See p. 116.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	1	5 less	98	+ 5	22·2	+ 3·0	60	+24	53	+21	373	− 20	24	− 1
	1. SCOTLAND, EAST	1	less than ½	4 less	68	− 6	6·3	− 4·3	62	+22	55	+19	503	+ 55	32	+ 3
	2. ENGLAND, N.E.	1	less than ½	4 less	56	−15	4·8	− 3·5	58	+18	53	+17	472	+ 28	30	+ 2
	3 ENGLAND, EAST	1	less than ½	4 less	66	− 3	6·3	− 1·8	65	+19	61	+18	505	− 5	32	0
	4. MIDLAND COUNTIES	0	—	4 less	59	− 7	5·4	− 3·7	60	+19	56	+18	477	+ 13	30	0
	5. ENGLAND, SOUTH	0	—	4 less	56	− 8	5·2	− 4·5	70	+22	66	+21	496	− 35	31	− 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	5 less	77	− 2	14·6	− 3·1	68	+26	62	+23	461	0	29	0
	7. ENGLAND, N.W.	0	—	5 less	69	− 3	10·1	− 0·7	66	+27	62	+24	446	+ 43	32	+ 3
	8. ENGLAND, S.W.	0	—	5 less	62	−10	7·9	− 5·7	75	+27	70	+25	561	− 8	35	− 1
	9. IRELAND, NORTH	1	less than ½	4 less	78	− 6	11·6	− 1·2	67	+26	61	+24	428	− 20	27	− 2
	10. IRELAND, SOUTH	0	—	6 less	67	−10	10·1	− 4·3	73	+29	68	+27	482	− 42	31	− 2
	—CHANNEL ISLANDS	0	—	4 less	67	−11	5·4	− 6·3	83	+25	78	+23	635	− 7	40	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was again fine and dry generally, but thunder and lightning accompanied by slight rain were experienced over the eastern and northern parts of the Kingdom on Tuesday, and a little rain fell at many of our northern stations later in the week.

Temperature was much above the mean, the excess ranging from 3° in England E., and 4° in England N.E., to 7° in Ireland N., and to 8° in England S.W. The highest of the maxima were registered, as a rule, on the 12th, when they varied from 85° in England S.W., 81° in the Midland counties, and 80° in England N.E. and Scotland E., to 75° in England N.W., and to 72° in the Channel Islands. The lowest of the minima were recorded either on the 10th or 11th, and ranged from 34° in England E., to 42° in England S., and 44° in the Channel Islands.

Rainfall was reported from our more northern and north-eastern districts only, where some very slight amounts were measured on two or three occasions.

Bright Sunshine was very prevalent in all districts, the percentage of the possible duration ranging from 53 in Scotland N. and England N.E., to 66 in England S., 70 in England S.W., and to 78 in the Channel Islands.

Barometer and Wind.—The distribution of pressure continued anticyclonic very generally, with light or moderate winds varying in direction from between West and North-West in the north, and from between North and North-East in the south. During the middle part of the period some local irregularities in pressure were observed, and the direction of the wind became very variable for a time.

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II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	62	40	54·0	45·3	49·4	+ 4·7	52	0	3	0·03	−0·35	*	*	*	*
	Stornoway	72	45	61·6	47·0	53·9	+ 7·2	83	0	1	0·03	−0·52	52·4	+10·6	46	+10
	Wick	68	39	60·7	44·9	52·3	+ 5·6	72	0	3	0·10	−0·30	*	*	*	*
	Glencarron Ⓢ	74	38	63·4	43·0	52·6	+ 5·1	74	0	3	0·11	−0·89	*	*	*	*
	Fort Augustus Ⓢ	77	39	67·6	41·4	53·7	+ 4·5	84	2	3	0·08	−0·42	59·3	+31·3	52	+26
	Fort William Ⓢ	72	42	65·3	44·7	54·4	+ 4·9	87	0	4	0·12	−0·68	67·6	+29·4	60	+26
1. SCOTLAND, E.	Nairn	74	37	66·0	41·6	53·1	+ 4·6	79	1	2	0·05	−0·31	*	*	*	*
	Aberdeen	69	41	63·1	45·0	53·5	+ 5·8	81	0	2	0·06	−0·38	53·6	+11·0	47	+ 9
	Braemar Ⓢ	73	35	66·2	39·2	51·9	+ 6·4	81	8	1	0·02	−0·48	67·3†	+27·5†	60†	+24†
	Ochtertyre Ⓢ	80	41	73·0	43·9	57·7	+ 9·5	110	0	1	0·01	−0·50	*	*	*	*
	Leith	76	41	64·7	44·9	54·2	+ 4·7	85	0	1	0·02	−0·33	*	*	*	*
	Marchmont Ⓢ	78	39	65·9	45·0	54·8	+ 7·4	90	0	1	0·06	−0·46	61·0	+20·1	55	+18
2. ENGLAND, N.E.	Alnwick Castle	67	38	61·7	43·7	52·2	+ 5·4	71	0	1	0·03	−0·45	*	*	*	*
	Durham	76	35	65·8	40·7	52·5	+ 4·4	79	4	1	0·04	−0·38	57·4	+18·6	52	+18
	Shields	72	41	60·9	44·6	52·3	+ 4·6	72	0	1	0·08	−0·30	*	*	*	*
	Scarborough Ⓜ	64	40	56·9	43·5	49·8	+ 1·5	55	0	0	—	−0·42	*	*	*	*
	York	80	38	69·1	42·3	54·9	+ 5·2	90	0	0	—	−0·40	58·6	+16·7	53	+15
	Spurn Head	67	42	58·0	45·1	51·2	+ 2·7	64	0	1	0·02	−0·33	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	77	35	65·1	41·9	52·8	+ 2·4	76	0	1	0·03	−0·37	63·0	+16·8	59	+16
	Yarmouth	82	41	57·4	46·4	51·6	+ 2·1	67	0	1	0·01	−0·39	*	*	*	*
	Geldeston	75	34	64·5	41·9	52·5	+ 1·9	74	0	0	—	−0·37	76·2	+26·2	71	+24
	Cambridge	76	38	69·3	41·9	54·8	+ 3·4	90	0	1	0·02	−0·38	64·3	+19·9	60	+19
	Rothamsted	74	39	68·2	42·7	54·7	+ 4·6	89	0	1	0·04	−0·44	57·5	+13·5	53	+12
4. MIDLAND COUNTIES	Harrogate Ⓜ	75	39	65·8	43·1	53·8	+ 4·6	83	0	0	—	?	58·0	?	53	?
	Bawtry (Hesley Hall)	78	37	70·1	40·1	54·2	+ 3·8	93	5	0	—	−0·42	*	*	*	*
	Loughborough	80	37	69·7	41·6	54·8	+ 3·4	91	1	0	—	−0·42	*	*	*	*
	Stamford (Ketton Hall)	78	35	72·0	39·9	55·0	+ 4·1	100	6	1	0·03	−0·45	*	*	*	*
	Cheadle Ⓜ	75	40	67·1	43·6	54·7	+ 5·7	89	0	0	—	−0·50	*	*	*	*
	Shirley (near Solihull)	74	37	68·0	40·8	53·9	+ 3·3	88	3	0	—	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ	81	41	72·8	43·6	57·3	+ 6·4	107	0	1	0·01	−0·37	*	*	*	*
	Cirencester	72	40	69·3	44·0	56·9	+ 6·5	97	0	0	—	−0·40	72·6	+27·6	67	+25
	Oxford	77	42	70·4	44·4	56·6	+ 5·3	102	0	0	—	−0·35	61·2	+17·6	57	+16
5. ENGLAND, S.	London	77	44	71·4	46·1	57·9	+ 5·6	111	0	0	—	−0·38	58·8†	+18·8†	54†	+16†
	North Foreland	69	44	59·4	47·1	52·9	+ 3·2	76	0	0	—	?	*	*	*	*
	Dungeness	70	42	61·7	46·6	53·7	+ 2·9	82	0	0	—	−0·32	*	*	*	*
	Hastings (St. Leonards)	69	45	66·9	47·1	56·4	+ 4·8	101	0	0	—	−0·35	74·2	+21·4	69	+19
	Southampton	79	46	73·4	47·5	59·7	+ 7·2	124	0	0	—	−0·40	67·2	+18·7	63	+16
	Hurst Castle	73	46	65·4	49·0	56·7	+ 5·0	103	0	0	—	−0·35	*	*	*	*
	Stowell Ⓜ	76	43	70·2	45·8	57·3	+ 6·4	107	0	0	—	−0·44	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	70	42	63·9	45·9	54·4	+ 4·7	87	0	3	0·35	−0·48	*	*	*	*
	Glasgow	74	43	68·9	45·3	56·4	+ 7·4	101	0	2	0·03	−0·47	59·0	+23·6	53	+21
	Ardrossan	69	44	64·3	47·0	55·1	+ 5·4	92	0	2	0·03	−0·44	*	*	*	*
	Glenlee Ⓢ	76	35	69·1	43·2	55·4	+ 6·5	94	0	0	—	−0·65	*	*	*	*
	Douglas (Isle of Man)	74	42	67·8	45·4	55·9	+ 6·5	97	0	0	—	−0·48	76·9	+27·9	70	+25
7. ENGLAND, N.W.	Stonyhurst	72	42	65·8	45·7	55·2	+ 6·1	92	0	0	—	−0·57	65·4	+23·3	59	+20
	Blackpool Ⓜ	74	40	66·1	44·7	54·9	+ 5·0	90	0	0	—	−0·42	72·8	+30·4	66	+27
	Manchester (Prestwich)	75	43	70·2	45·4	57·1	+ 7·7	106	0	0	—	−0·50	61·4	?	55	?
	Liverpool Obsy. (Bidston)	74	45	66·3	48·7	57·0	+ 6·0	105	0	0	—	−0·38	*	*	*	*
	Llandudno Ⓜ	72	48	66·1	50·2	57·7	+ 6·9	110	0	0	—	−0·40	*	*	*	*
	Holyhead	68	47	62·4	49·3	55·5	+ 5·0	95	0	0	—	−0·40	*	*	*	*
8. ENGLAND, S.W.	Llandovery	85	37	76·0	40·4	57·1	+ 6·7	112	4	0	—	−0·48	*	*	*	*
	Pembroke	68	50	64·7	52·1	58·0	+ 8·3	112	0	0	—	−0·40	76·6	+27·8	71	+26
	Arlington (N. Devon)	80	43	72·1	46·4	58·5	+ 8·9	116	0	0	—	−0·60	*	*	*	*
	Cullompton Ⓜ	79	39	73·4	44·7	58·2	+ 6·8	113	0	0	—	−0·58	69·7	+25·7	65	+23
	Falmouth	70	49	65·7	52·3	58·6	+ 7·4	116	0	0	—	−0·66	80·4	+29·7	76	+28
	Plymouth	75	49	69·4	51·7	60·0	+ 7·3	126	0	0	—	−0·46	76·8	+29·5	72	+27
	Prawle Point	70	48	66·1	51·1	58·2	+ 7·7	113	0	0	—	−0·32	*	*	*	*
9. IRELAND, N.	Malin Head	63	49	60·0	50·9	55·2	+ 6·0	92	0	0	—	?	*	*	*	*
	Londonderry	79	46	71·4	47·9	58·9	+ 8·4	118	0	2	0·03	−0·37	*	*	*	*
	Edenfel (Omagh)	76	41	68·4	45·6	56·3	+ 7·4	100	0	0	—	−0·43	*	*	*	*
	Belmullet	72	44	64·9	50·7	57·3	+ 6·8	107	0	1	0·03	−0·47	*	*	*	*
	Markree Castle	76	37	67·2	44·5	55·2	+ 6·7	92	0	1	0·03	−0·40	68·2	+27·0	62	+25
	Armagh	75	41	69·5	45·8	56·9	+ 6·0	104	0	0	—	−0·48	66·6	+26·9	61	+25
	Donaghadee	69	44	64·0	48·4	55·7	+ 6·1	96	0	0	—	−0·40	*	*	*	*
	Edgeworthstown	79	42	69·4	45·4	56·7	+ 7·1	103	0	0	—	−0·51	*	*	*	*
10. IRELAND, S.	Dublin	71	46	67·1	49·6	57·8	+ 6·3	111	0	0	—	−0·44	72·7	+26·3	67	+24
	Parsonstown	77	40	71·0	45·0	57·2	+ 7·0	106	0	0	—	−0·47	67·6	+27·1	63	+26
	Kilkenny	77	42	71·6	45·7	57·9	+ 7·3	111	0	0	—	−0·47	*	*	*	*
	Roche's Point	72	49	67·6	51·7	59·2	+ 7·5	120	0	0	—	−0·71	*	*	*	*
	Valencia	70	42	65·0	45·1	54·5	+ 2·8	88	0	1	0·03	−0·70	88·5	+42·5	82	+39
	Killarney	76	37	69·9	42·7	55·5	+ 4·4	95	0	1	0·03	?	*	*	*	*
	Foynes	75	44	68·7	49·0	58·3	+ 7·9	114	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	52	63·3	53·4	58·1	+ 6·4	113	0	0	—	−0·38	84·0	?	79	?
	Jersey	72	44	67·1	50·3	58·3	+ 5·1	114	0	0	—	−0·37	80·9	+25·9	77	+24

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

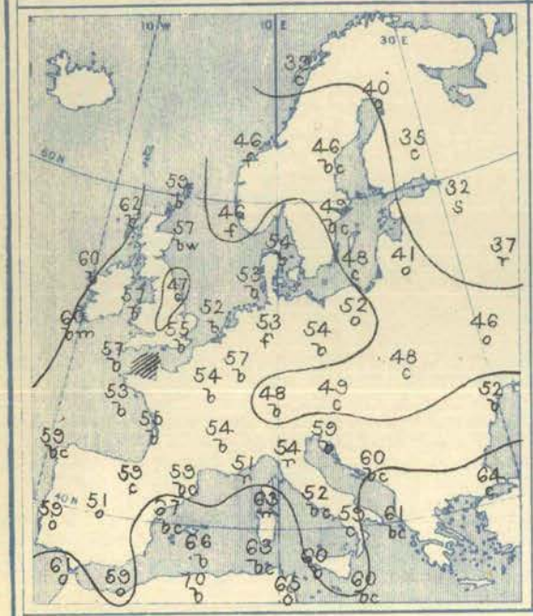
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 10th May.

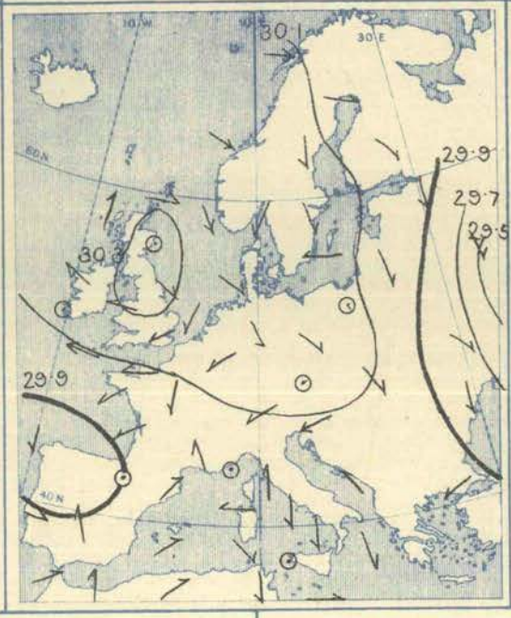
Temperature and Weather.

8 a.m.

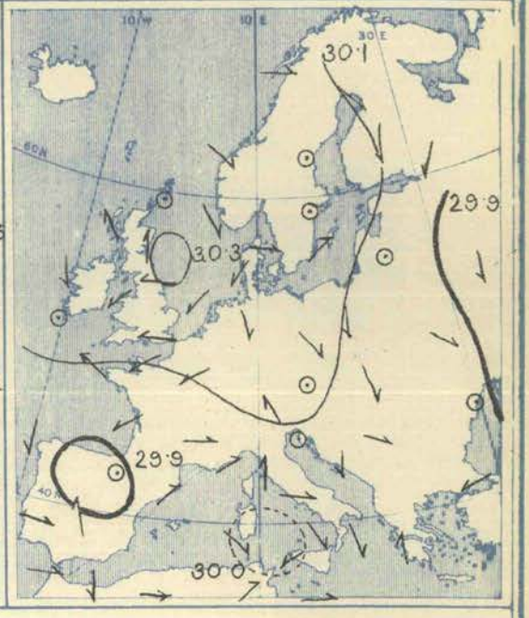


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western, central, and southern Europe generally; dull and unsettled over Russia, with rain at Moscow; snow at St. Petersburg. Considerable rain later over Algeria and the south of France, and a little in the north-west of Norway; thunderstorms reported very generally over the southern departments of France.

Temperature rising over western, falling over eastern Europe. Morning readings highest, 70° at Algiers, 67° at Barcelona, and above 60° at many of the stations in southern and south-western Europe, 62° at Stornoway, 60° at Valencia (Ireland) and Liverpool, 59° at Sumburgh Head, 58° at Malin Head. Lowest, 32° at St. Petersburg, 35° at Kuopio, 37° at Moscow, 39° at Bodö, 40° at Helsingfors, 41° at Riga. Rising to between 70° and 73° in several parts of the British Islands later, to 75° at Paris, 77° in the south-west of France, and to 70° in some parts of Italy; succeeding night cold over England.

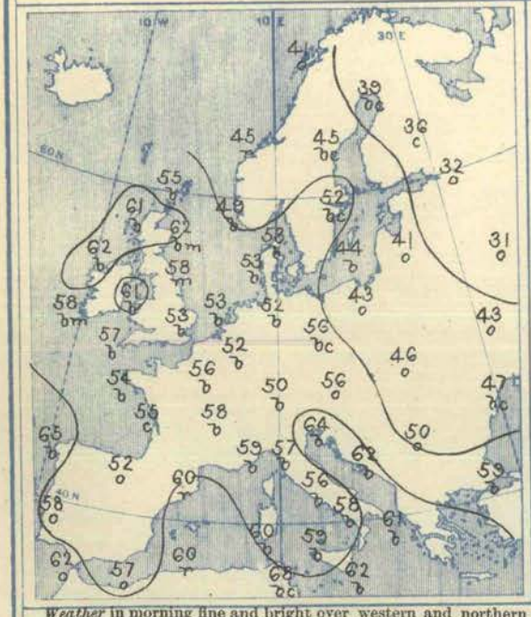
Wind light and anticyclonic over the whole of the British Islands and north-western Europe; North-Easterly to Northerly over the Baltic and Germany; North-Westerly over Hungary and over the south of Russia; very light and variable over the Mediterranean. No important change during the day.

Barometer in morning highest, 30·3 ins. and more over the east of Scotland and north-east of England, and exceeding 30·1 ins. over the whole of north-western and central Europe. Lowest, below 29·5 ins. in a depression over central Russia; gradients very slight; falling a little at the extreme north-western stations later, but no decided change anywhere.

Monday, 11th May.

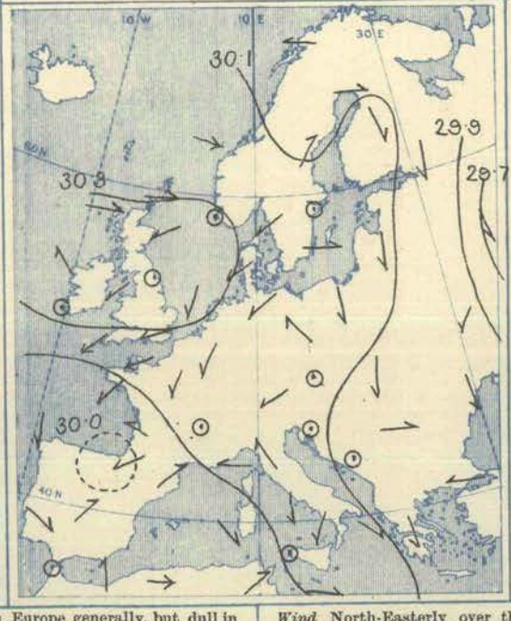
Temperature and Weather.

8 a.m.

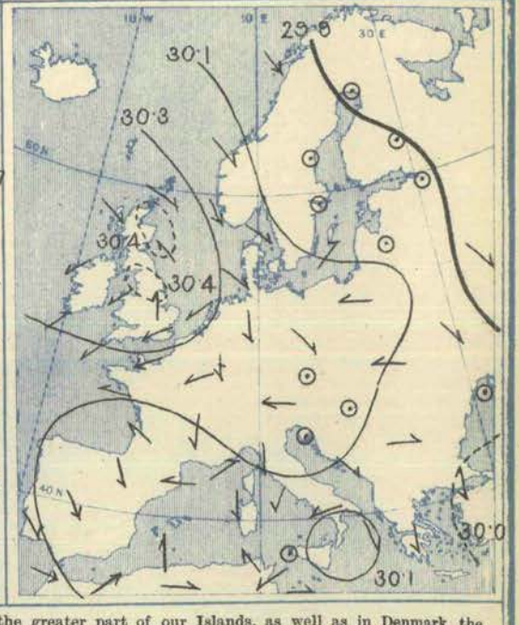


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western and northern Europe generally, but dull in the west of Norway, with rain at Christiansund. Dull in Austria and the central and southern parts of Russia, as well as over the Spanish Peninsula and the extreme south of France; rain falling at Barcelona, and also at most of the Algerian stations. No change taking place later over western Europe, but rain falling in Germany and the extreme southern parts of France; thunderstorms and much rain in the north of Spain and at Biarritz.

Temperature risen in our Islands, fallen in Russia, Denmark, and north Germany, changed irregularly elsewhere. Morning readings highest, (1) 68° at La Calle and Sfax, 67° at Patras, 65° at Corunna, and 64° at Trieste; (2) 63° at Wick and Liverpool, and 62° at Aberdeen, Malin Head, Belmullet, and Roche's Point (above 55° in the west and north of our Islands generally). Lowest, 31° at Moscow, 32° at St. Petersburg, 36° at Kuopio, and 39° at Haparanda. Rising during day to 70° and upwards in many parts of the United Kingdom and France, and reaching 76° at Leith, and 80° at Paris, lower at the southern French stations, in Italy, and at Lisbon.

Wind North-Easterly over the greater part of our Islands, as well as in Denmark, the Netherlands, and the north of France; fresh in force over the western parts of the English Channel. Easterly in the south of France; North-Westerly on the Portuguese coast; South-Westerly at Madrid. Light from the Westward in the north of Scotland; variable in Scandinavia; Northerly or North-Westerly in Russia, Austria, and Italy. Subsequently veering to the North-Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·40 ins. at Donaghadee; 30·3 ins. and upwards in an anticyclone covering the greater part of our Islands and the North Sea. Lowest, 29·7 ins. and less in a depression over central Russia; 30·0 ins. and less in a shallow disturbance over the north of Spain and the west of France; 30·1 ins. and less over the northern parts of Scandinavia. No important change occurring over western Europe during day.

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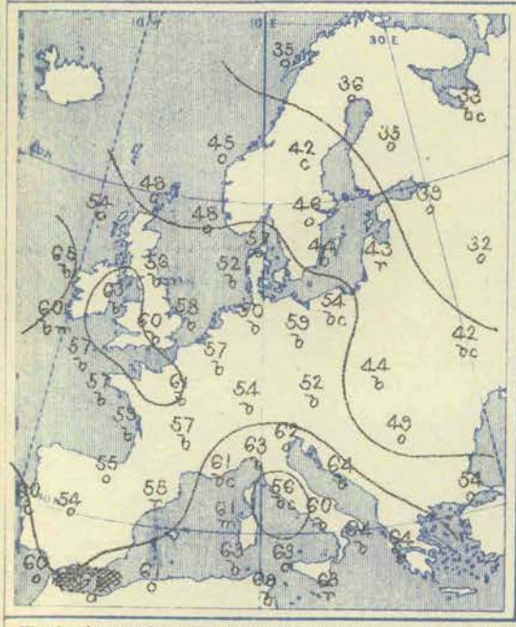
Tuesday, 12th May.

Temperature and Weather.

8 a.m.

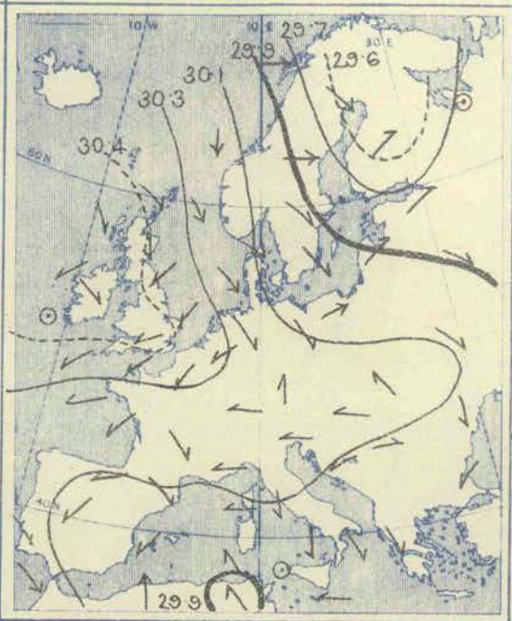


Weather in morning still fine over eastern, central, and western Europe generally, but very cloudy over Scotland, Norway, and the south of Sweden; rainy at Helsingfors and Riga. Rain falling later at several of the Scandinavian stations and at Cambridge; thunder and lightning occurring over the northern and eastern counties of England, and a little rain at Cambridge. Much bright sunshine in the west and south of our Islands. Very heavy falls of rain over Algeria and Tunis.

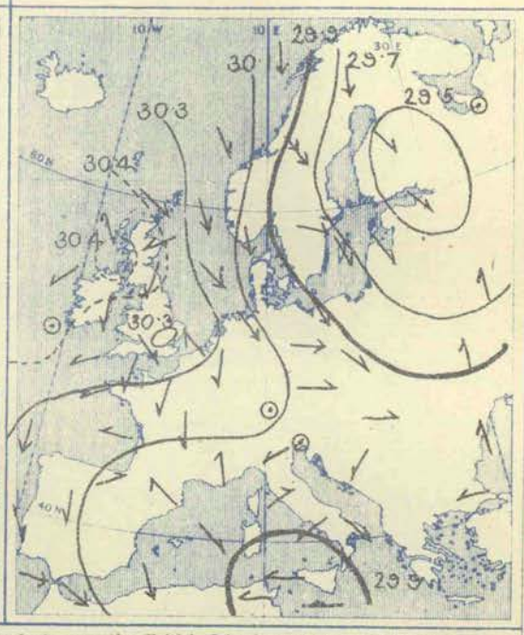
Temperature beginning to fall in Scotland and the far north generally, rising over England and France. Morning readings highest, 65° at Belmullet and Liverpool, 64° at Patras, Brindisi, and Lesina, and above 60° at several stations in the extreme south and west of Europe and the British Islands. Lowest, 32° at Moscow, 33° at Archangel, 35° at Bodö and Kuopio, 39° at St. Petersburg and Kharkov. Changing fitfully over our Islands later, falling over England at night, but touching 80° at York and Loughborough, 77° in London, 79° to 83° in the south-west and south of France.

Barometer and Wind.

8 a.m.



6 p.m.



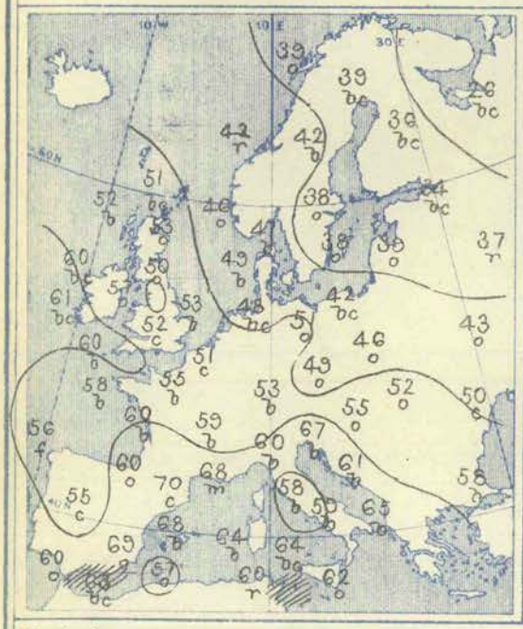
Wind (1) very light and anticyclonic over the British Islands and their neighbourhood; (2) North-Westerly and Westerly strong to light over the countries lying to the eastward of the North Sea. South-Westerly and very light over Finland and the Baltic provinces; (3) light and chiefly Easterly or North-Easterly over southern Europe; South-Westerly to Southerly and strong over Algeria. Becoming very variable in direction, and fitful in force over the British Isles later.

Barometer highest, 30·4 ins. and more to 30·3 ins. over the British Islands and their neighbourhood. Lowest, 29·6 ins. and less in a depression lying over Finland and the east of Lapland; below 30·0 ins. over the southern shores of the Mediterranean, and below 29·9 ins. over Tunis. Local depressions appearing in various parts of the British Islands later, and pressure changing fitfully in those regions.

Wednesday, 13th May.

Temperature and Weather.

8 a.m.

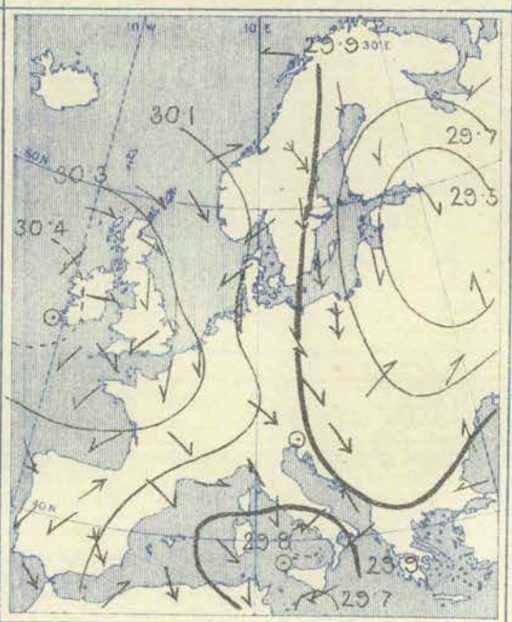


Weather in morning dull in the west of Norway, with rain in places; dull and unsettled also over the south of Russia; fine generally elsewhere, but hazy over the British Islands. Some rain later over Scandinavia and the north of Scotland; lightning seen over the central parts of England at night, but weather in other respects fine.

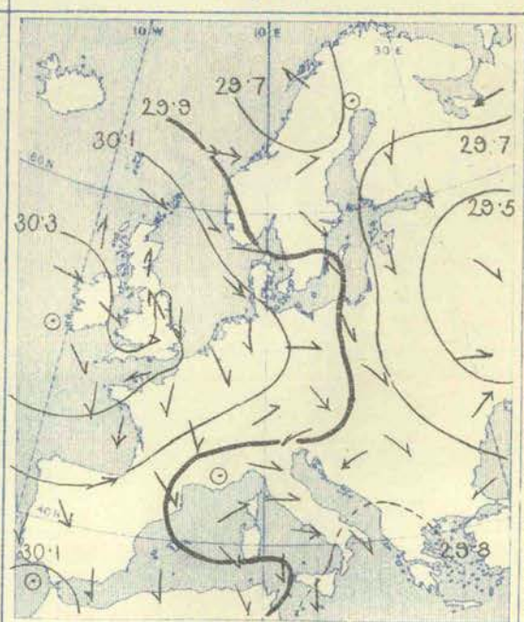
Temperature fallen somewhat over England, the North Sea, and the northern parts of France, and considerably over the Baltic and north Germany. Morning readings highest, 70° at Oporto and Barcelona, and exceeding 60° at many of the stations in the south of Europe, and in the south-west and extreme west of the British Islands. Lowest, 26° at Archangel, 33° at Helsingfors, and below 40° over the northern half of Russia, Finland, and the south-east of Sweden generally, 48° at Cuxhaven, 49° at York and Loughborough. Rising to a little above 70° over many parts of our Islands later, and to 78° at Perpignan, to 80° at Croisette, and to 84° at Cagliari.

Barometer and Wind.

8 a.m.



6 p.m.



Wind (1) Westerly moderate to strong in the west of Norway; Northerly strong to a gale over Sweden and the Baltic, but Southerly over the southern and central parts of Russia; (2) very light and anticyclonic over the British Islands; North-Easterly light over the Channel and Bay of Biscay; Northerly over Spain. Becoming extremely light and variable over the United Kingdom later; little change elsewhere.

Barometer highest, 30·4 ins. and more over the south-western half of Ireland, and exceeding 30·1 ins. in a large anticyclone covering the whole of the British Islands, the North Sea, and western Europe, together with all the neighbouring parts of the Atlantic. Lowest, below 29·4 ins. in a large depression lying over the western parts of central Russia, and 29·7 ins. and less to 29·9 ins. in a complex system covering the eastern and south-eastern parts of the Mediterranean. Falling unsteadily over the United Kingdom later, and a local depression again appearing over central England.

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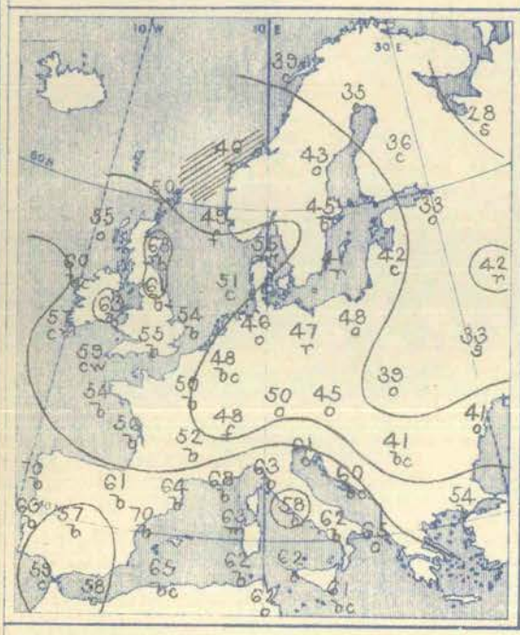
Thursday, 14th May.

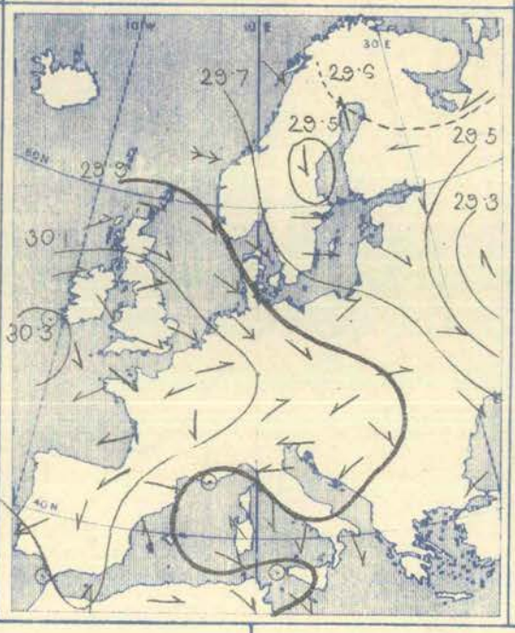
Temperature and Weather.

8 a.m.

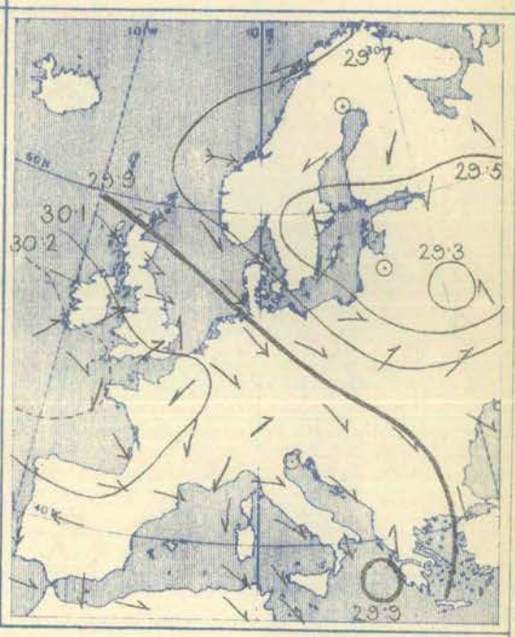


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, Spain, France, England, and Ireland; dull and unsettled over northern, eastern, and central Europe, with rain in several places; snow at Archangel; haze or fog at the Channel stations. Similar conditions continuing over Continental Europe during day, but showers of rain falling more generally over our northern and western districts than for some time past; thunderstorm occurring at Ardrossan.

Temperature fallen decidedly over central, southern, and south-eastern Europe, risen over England. Morning readings highest, 70° at Barcelona and Oporto, 65° at Brindisi, and above 60° at many stations in southern and western Europe. Lowest, 28° at Archangel, 33° at St. Petersburg, 34° at Uleaborg, 39° at Bodö. Rising later to between 70° and 76° over many parts of our Islands, and remaining mild all night; touching 70° to 75° in the south of France, and 70° to 73° over Italy.

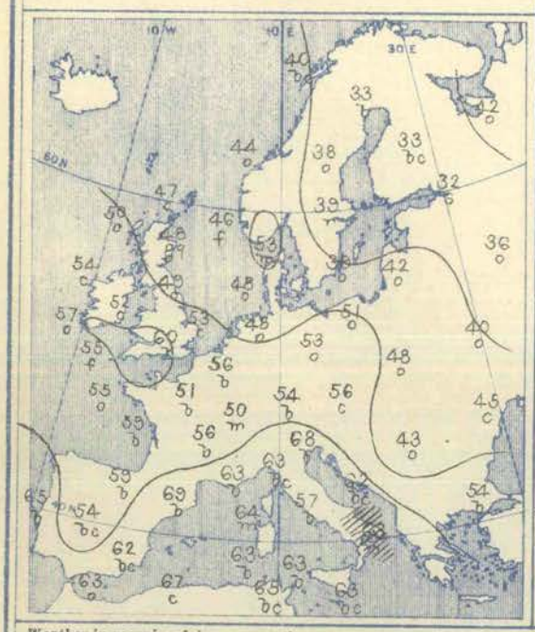
Wind light and anticyclonic over Ireland, Scotland, England, and France; North-Westerly in the countries lying to the eastward of the North Sea; strong to a gale from West in the north-west of Norway, but Easterly at Archangel and Uleaborg; North-Easterly in the south of France. Shifting to North-West in Scotland later, with a fall of temperature; backing to South-West over the south-east of England.

Barometer highest, 30·3 ins. and more in the south of Ireland, and exceeding 30·0 ins. over the British Islands and western Europe generally. Lowest, below 29·3 ins. in a depression over central Russia, and below 29·5 ins. in another over the Gulf of Bothnia near Stockholm; below 29·9 ins. in a third over the northern parts of the Mediterranean. Northern depressions moving east-south-eastwards later; barometer rising fast over Lapland.

Friday, 15th May.

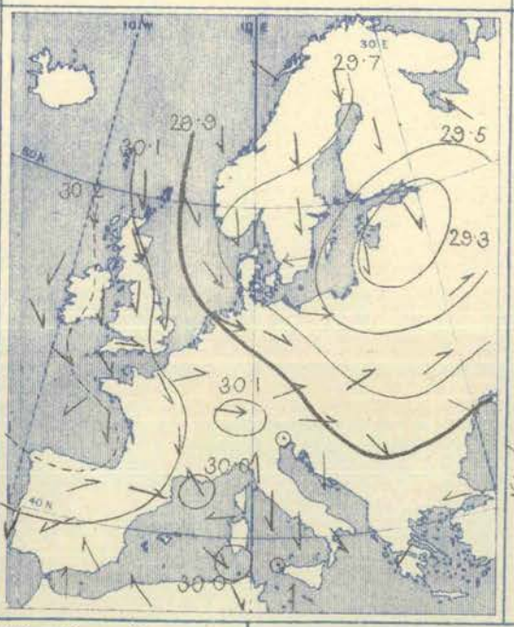
Temperature and Weather.

8 a.m.

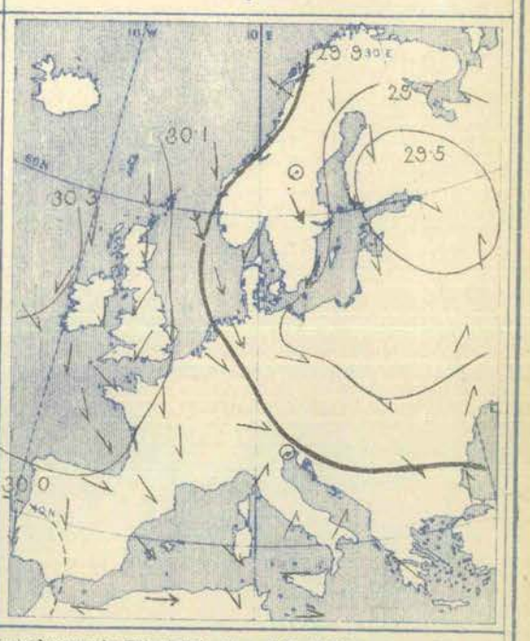


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over south-eastern, southern, and south-western Europe, France, and the western parts of the United Kingdom; cloudy or overcast and unsettled elsewhere—especially over the Baltic, north Germany, and western Russia, with rain in some places; snow at St. Petersburg. Rain falling later over Germany and the Baltic; slight local falls over the northern and eastern parts of our Islands and the Netherlands; clouds heavy over London, but no rain. Rain over Algeria.

Temperature fallen decidedly in Scotland, and fall spreading southwards, risen over central and south-eastern Europe. Morning readings, 67° at Algiers, 65° at Lisbon, and exceeding 60° at several stations in southern and western Europe—including England and the east of Ireland. Lowest, 32° at St. Petersburg, 33° at Haparanda and Kuopio, 36° at Moscow, 39° at Stockholm, 40° at Kiev, 48° to 49° on our own north-east coasts. Touching 70° at some of our southern stations later, and rising to between 75° and 79° over several parts of Italy and the south of France, but subsequently falling decidedly all over England and the north of France.

Wind (1) Northerly and North-Westerly over the British Islands, and North-Westerly to North-Easterly over France; light to moderate in most places, but strong in the east of Scotland: (2) a complex circulation of strong winds over the Baltic and north Germany; moderate North-Westerly over central Europe, and South-Westerly over the south of Russia; (3) very light and variable over the Mediterranean. Becoming more Northerly over the British Isles later, but falling light even on our north-east coasts.

Barometer highest, 30·2 ins. and more over Ireland and the Bay of Biscay, and exceeding 30·0 ins. all over the British Islands, Spain, France, Switzerland, and the Mediterranean. Lowest, 29·3 ins. and less in an elongated depression over the Baltic provinces and north-western Russia, and below 29·6 ins. in a secondary system over the south of Sweden. Rising over the British Islands later, falling a little over France, Spain, and central Europe.

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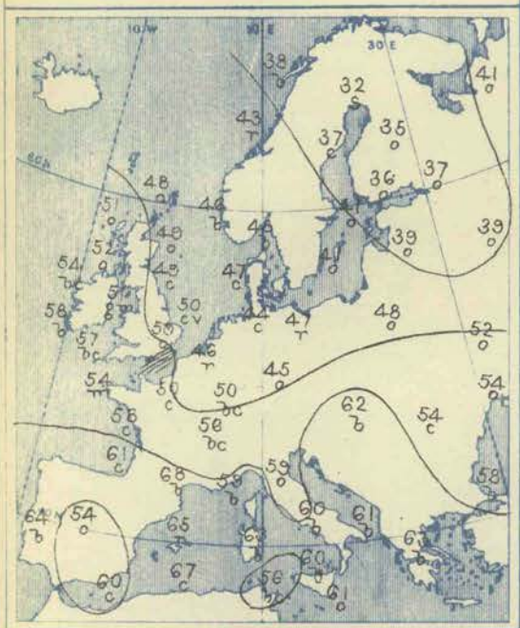
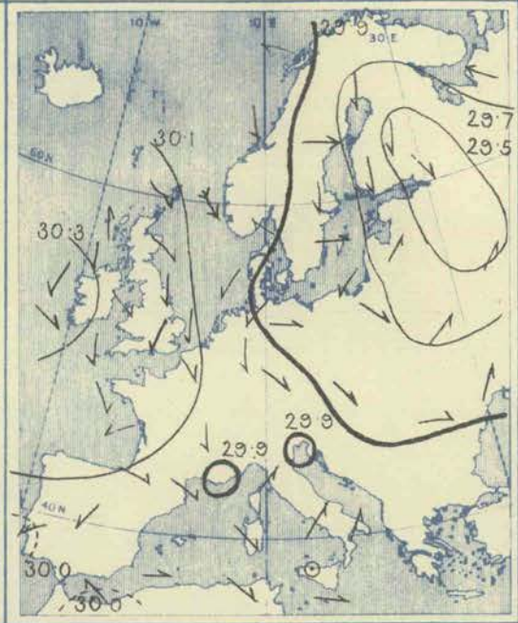
Saturday, 16th May.

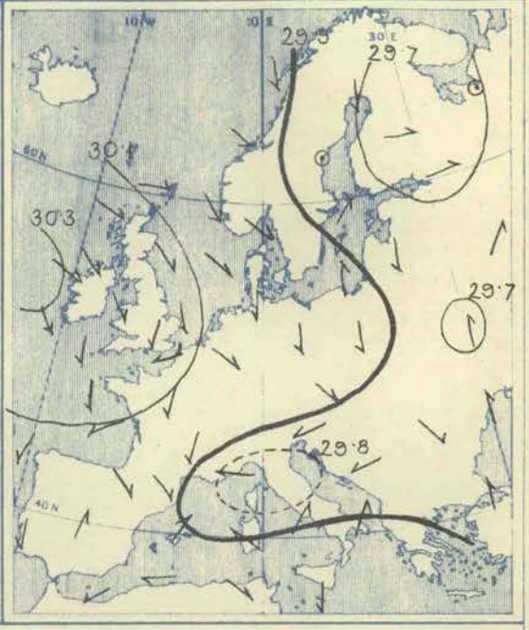
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Portugal, France, and the western parts of the British Islands; cloudy or overcast elsewhere and unsettled; snow at Haparanda and Uleaborg; rain in the west of Norway, the Shetland Isles, at Berlin, Brussels, and some of the Mediterranean stations. Rain later in some parts of Germany and in the Shetlands, weather fair, but dull over Great Britain, clear and bright over Ireland and the west and south of France.

Temperature fallen decidedly over England, central Europe, and western Russia. Morning readings highest, 73° at Oporto, 72° at Barcelona, 67° at Algiers, and above 60° at most of the Mediterranean stations; 58° at Valencia (Ireland), 56° at Jersey. Lowest, 30° at Uleaborg, 32° at Haparanda, and below 40° over almost all the northern half of Russia; 49° at Aberdeen and Shields, and 50° at Yarmouth and in London. Rising later to 66° at Leith, but scarcely exceeding 60° at any of our other stations; touching 80° at Perpignan, and 77° at Lisbon.

Wind (1) light to moderate in force and anticyclonic in direction over the United Kingdom (North-Westerly in the north, North-Easterly to Easterly in the south, but varying locally); (2) Northerly and moderate over the greater part of northern Europe, North-Westerly over Austria, South-Westerly over the southern half of Russia; (3) light and cyclonic over the Mediterranean. No decided change later.

Barometer highest 30·3 ins. and more in the west of Ireland, and exceeding 30·1 ins. over the whole of the British Islands and their neighbourhood, as well as over the Bay of Biscay. Lowest, below 29·5 ins. in a large shallow depression lying over the northern half of Russia and part of Finland, and below 29·9 ins. in two small systems—one over the Gulf of Genoa, the other at the northern extremity of the Adriatic. No decided change over north-western Europe later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	65·6	+29·1	59	+ 26	SOUTHPORT	70·2	?	64	?
OSWALDKIRK (Yorkshire)	58·8	+19·8	53	+ 16	MANCHESTER (Oldham Road)	55·2*	?	51*	?
WORKSOP	51·7	+12·1	48	+ 13	COLWYN BAY	78·8*	?	73*	?
THURCASTON (Leicestershire)	58·5	+17·7	54	+ 16	TENBY	71·5*	+22·3	66*	+ 20
MARGATE	64·3	+20·5	60	+ 19	NEWQUAY	73·5	+26·4	69	+ 24
WESTBOURNE (Sussex)	76·6*	+25·7	72*	+ 24	TORQUAY	74·9*	+26·5	71*	+ 25
BRIGHTON	72·3	+24·0	68	+ 23	ARLEY COTTAGE (County Cavan)	65·2	+23·7	59	+ 21
EASTBOURNE	77·7	+27·6	73	+ 26	GUERNSEY	82·5*	+23·7	79*	+ 22

* The values at Manchester, Colwyn Bay, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 21.] *Third Series.* WEEK ENDING SATURDAY, MAY 23RD, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 122)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	36	54·8	44·2	49·2	1 above	50	+ 3	0	− 4	502	+152	305	−309
	1. SCOTLAND, EAST	76	37	60·6	44·2	51·9	3 above	69	+11	0	− 3	624	+178	408	−238
	2. ENGLAND, N.E.	72	36	59·3	45·8	52·2	2 above	71	+12	0	− 2	582	+146	327	−220
	3. ENGLAND, EAST	75	34	60·7	45·6	52·7	1 above	75	+ 2	0	− 3	647	+ 82	388	−226
	4. MIDLAND COUNTIES	78	31	63·5	46·0	54·2	3 above	85	+10	0	− 2	737*	+137	372	−245
	5. ENGLAND, SOUTH	77	37	62·3	47·7	54·6	2 above	88	+ 8	0	− 1	758	+124	237	−238
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	35	58·7	46·3	52·1	2 above	71	+ 7	0	− 2	668	+184	234	−226
	7. ENGLAND, N.W.	73	33	60·6	47·5	53·7	2 above	82	+15	0	− 2	698	+199	201	−256
	8. ENGLAND, S.W.	77	30	63·1	47·7	54·9	3 above	90	+16	0	− 1	836	+205	155	−206
	9. IRELAND, NORTH	70	36	58·3	46·7	52·1	2 above	71	+ 6	0	− 1	779	+118	162	−231
	10. IRELAND, SOUTH	69	34	61·2	47·9	54·2	2 above	85	+13	0	− 1	937	+245	89	−209
	—CHANNEL ISLANDS	67	46	61·1	50·9	55·7	2 above	96	+16	0	0	1040	+294	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 122.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	7 more	104	+ 7	23·5	+ 3·7	26	−10	22	− 9	399	− 30	24	− 2
	1. SCOTLAND, EAST	5	8	3 more	73	− 4	7·1	− 4·0	30	−11	27	− 9	533	+ 44	32	+ 3
	2. ENGLAND, N.E.	5	7	2 more	61	−13	5·5	− 3·3	25	−17	22	−15	498*	+ 12	30	+ 1
	3 ENGLAND, EAST	5	5	0 (average)	71	− 1	6·8	− 1·7	23	−24	21	−22	528	− 29	31	− 2
	4. MIDLAND COUNTIES	4	4	2 less	63	− 6	5·8	− 3·8	33	− 8	30	− 7	514*	+ 9	31	+ 1
	5. ENGLAND, SOUTH	4	2	2 less	60	− 7	5·4	− 4·7	34	−15	31	−14	530	− 50	31	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	0 (average)	82*	0	15·2	− 3·1	44	+ 1	39	0	505	0	30	0
	7. ENGLAND, N.W.	4	5	1 less	73	− 2	10·6	− 0·8	42	− 3	38	− 2	488	+ 41	32	+ 2
	8. ENGLAND, S.W.	1	less than ½	5 less	63	−12	7·9	− 6·2	59	+10	54	+ 9	620	+ 2	37	+ 1
	9. IRELAND, NORTH	4	5	0 (average)	82	− 5	12·1	− 1·2	29	−13	26	−11	457	− 33	27	− 2
	10. IRELAND, SOUTH	4	2	4 less	71	−10	10·3	− 4·7	33	−12	30	−11	515	− 54	31	− 3
	—CHANNEL ISLANDS	3	2	2 less	70	−12	5·6	− 6·5	58	− 4	54	− 4	693	− 13	40	− 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was again fine and dry in all parts of the Kingdom at the commencement of the period. Overcast skies, with occasional rain, soon set in, however, in the extreme north and north-east, and spread gradually to nearly all parts of our Islands. The rain was moderately heavy at most of the more northern stations, but very slight elsewhere, especially in the south and south-west. At the close of the week the weather was clearing up again.

Temperature exceeded the mean in all districts, the excess ranging from 1° in the north of Scotland and England E., to 2° or 3° in all other places. The highest of the maxima were registered, as a rule, on the 18th, and ranged from 78° in the Midland counties, and 77° in England S. and S.W., to 67° in the Channel Islands. The lowest of the minima were recorded on the 21st, when the sheltered thermometer fell to 30° in England S.W. (at Llandovery), to 31° in the Midland counties (at Cirencester), and to between 33° and 37° in all other districts except the Channel Islands, where the lowest reading was 46°.

Rainfall was more than the normal amount in Scotland N. and E., and England N.E. and just equal to it in England E., Scotland W., and Ireland N. In all other districts there was a deficit.

Bright Sunshine showed a deficiency in all districts excepting England S.W., and Scotland W. The percentage of the possible duration ranged from 54 in the Channel Islands and England S.W., to 22 in Scotland N. and England N.E., and to 21 in England E.

Barometer and Wind.—Pressure continued high and anticyclonic in the extreme west and south-west throughout the period, but some rather large depressions moved south-eastwards over Scandinavia and Denmark, and their secondaries passed in a similar direction down the North Sea, causing strong North-Westerly to Northerly winds over our Islands generally and frequent rain in the north and north-east. During Wednesday a moderate to strong gale was experienced on some parts of our north and north-west coasts.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 121 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	39	50·7	41·9	46·0	+ 0·3	28	0	5	1·04	+0·62	*	*	*	*
	Stornoway	57	41	53·1	44·3	48·4	+ 0·9	45	0	5	1·29	+0·69	29·4	−12·4	25	−11
	Wick	62	36	54·3	43·0	48·3	+ 0·6	44	0	6	1·76	+1·37	*	*	*	*
	Glencarron ℌ	61	39	54·1	42·3	47·9	− 0·6	41	0	7	1·82	+0·70	*	*	*	*
	Fort Augustus ℌ	69	39	59·5	46·2	52·5	+ 2·8	74	0	4	0·80	+0·35	24·3	− 3·9	21	− 4
	Fort William ℌ	63	44	56·9	47·3	51·8	+ 1·3	69	0	6	1·06	+0·27	23·7	−15·1	20	−13
1. SCOTLAND, E.	Nairn	70	37	59·3	43·4	50·9	+ 1·2	62	0	6	0·74	+0·34	*	*	*	*
	Aberdeen	71	41	57·9	45·0	51·1	+ 2·1	64	0	7	1·30	+0·84	27·6	−16·4	24	−14
	Braemar ℌ	68	37	56·4	43·3	49·5	+ 2·6	53	0	6	0·86	+0·38	26·9†	−14·4†	23†	−13†
	Ochtertyre ℌ	76	38	63·9	43·6	53·1	+ 3·6	78	0	3	0·50	−0·09	*	*	*	*
	Leith	75	39	65·1	46·9	55·5	+ 4·5	95	0	5	0·42	0·00	*	*	*	*
	Marchmont ℌ	71	37	61·0	43·0	51·5	+ 2·8	67	0	4	1·16	+0·58	29·3	−12·8	26	−11
2. ENGLAND, N.E.	Alnwick Castle	69	40	58·1	45·6	51·5	+ 3·4	67	0	5	0·89	+0·38	*	*	*	*
	Durham	72	36	62·3	44·3	52·8	+ 3·3	76	0	4	0·43	−0·06	21·1	−18·7	19	−16
	Shields	66	38	59·4	45·6	52·1	+ 3·1	71	0	4	0·78	+0·40	*	*	*	*
	Scarborough ℳ	64	41	56·7	46·0	51·0	+ 1·3	63	0	6	0·79	+0·31	*	*	*	*
	York	72	34	63·4	46·1	54·2	+ 2·3	85	0	5	0·46	0·00	33·6	− 9·3	30	− 8
	Spurn Head	61	41	55·0	47·3	51·4	− 0·3	66	0	5	0·56	+0·16	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	75	39	61·8	45·1	53·0	+ 1·3	77	0	6	1·02	+0·54	23·1	−24·8	21	−22
	Yarmouth	59	41	55·3	45·9	50·3	− 0·4	58	0	4	0·40	−0·05	*	*	*	*
	Geldeston	67	36	59·9	44·2	51·6	+ 0·2	67	0	4	0·44	+0·01	18·9	−32·3	17	−30
	Cambridge	75	36	64·1	46·3	54·7	+ 2·0	89	0	5	0·27	−0·20	27·0	−18·5	25	−16
	Rothamsted	71	34	62·4	46·7	54·1	+ 2·7	85	0	4	0·39	−0·09	21·5	−23·5	20	−21
4. MIDLAND COUNTIES	Harrogate ℳ	70	36	60·4	45·2	52·3	+ 1·5	72	0	4	0·54	?	22·0	?	20	?
	Bawtry (Hesley Hall)	72	35	64·0	44·1	53·5	+ 1·7	81	0	6	0·52	+0·02	*	*	*	*
	Loughborough	76	36	64·1	47·7	55·4	+ 2·4	94	0	4	0·49	−0·01	*	*	*	*
	Stamford (Ketton Hall)	74	35	65·1	47·1	55·6	+ 3·5	95	0	4	0·45	−0·09	*	*	*	*
	Cheadle ℳ	72	33	61·3	44·6	52·5	+ 2·1	74	0	3	0·24	−0·33	*	*	*	*
	Shirley (near Solihull)	74	33	62·1	46·5	53·8	+ 1·4	83	0	4	0·35	?	*	*	*	*
	Churchstoke ℳ	75	34	62·9	42·9	52·3	+ 2·0	72	0	5	0·28	−0·25	50·5	+ 7·5	45	+ 6
	Hereford ℳ	78	35	66·6	47·3	56·4	+ 4·0	101	0	3	0·13	−0·39	*	*	*	*
	Cirencester	74	31	64·1	46·1	54·6	+ 3·7	88	0	4	0·28	−0·23	41·7	− 4·1	38	− 4
	Oxford	73	33	64·0	48·1	55·6	+ 3·2	95	0	4	0·20	−0·26	31·3	−13·4	28	−13
5. ENGLAND, S.	London	77	38	64·6	47·7	55·6	+ 1·7	95	0	3	0·16	−0·28	20·6†	−21·1†	19†	−13†
	North Foreland	61	42	57·7	47·3	52·2	0·0	71	0	4	0·13	?	*	*	*	*
	Dungeness	64	37	59·4	44·9	51·7	− 0·8	68	0	4	0·11	−0·38	*	*	*	*
	Hastings (St. Leonards)	68	42	59·6	47·7	53·3	+ 0·5	79	0	4	0·26	−0·16	37·9	−16·2	35	−15
	Southampton	75	38	67·1	48·8	57·4	+ 3·9	108	0	3	0·33	−0·13	40·3	− 9·2	37	− 9
	Hurst Castle	70	39	64·3	50·4	56·9	+ 4·0	104	0	4	0·39	−0·03	*	*	*	*
	Stowell ℳ	74	38	63·6	47·3	55·0	+ 3·4	91	0	4	0·17	−0·31	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	41	55·5	46·5	50·7	0·0	61	0	6	1·08	+0·24	*	*	*	*
	Glasgow	67	41	59·4	46·6	52·6	+ 2·1	74	0	2	0·75	+0·14	43·6	+ 7·3	38	+ 6
	Ardrossan	62	45	57·9	46·9	52·1	+ 1·3	71	0	4	0·52	−0·01	*	*	*	*
	Glenlee ℌ	69	35	60·2	44·9	52·1	+ 2·6	71	0	3	0·62	−0·13	*	*	*	*
	Douglas (Isle of Man)	70	40	60·7	46·4	53·1	+ 2·9	78	0	4	0·42	−0·31	44·5	− 5·7	40	− 5
7. ENGLAND, N.W.	Stonyhurst	68	36	59·1	45·8	52·1	+ 1·5	71	0	4	0·75	+0·05	38·0	− 5·8	34	− 5
	Blackpool ℳ	73	38	62·6	48·2	55·0	+ 3·9	91	0	5	0·50	0·00	44·8	+ 0·8	40	+ 1
	Manchester (Prestwich)	69	33	63·4	45·4	53·9	+ 3·2	83	0	5	0·44	−0·16	33·1	?	30	?
	Liverpool Obsy. (Bidston)	71	43	59·3	48·7	53·7	+ 1·9	82	0	5	0·39	−0·08	*	*	*	*
	Llandudno ℳ	68	45	60·6	49·0	54·5	+ 2·2	88	0	3	0·53	+0·08	*	*	*	*
	Holyhead	62	45	58·4	48·1	52·9	+ 1·1	76	0	3	0·24	−0·23	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	30	66·6	44·4	54·8	+ 2·8	90	0	2	0·05	−0·62	*	*	*	*
	Pembroke	62	44	57·3	49·0	52·9	+ 1·8	76	0	1	0·02	−0·45	57·1	+ 7·4	52	+ 7
	Arlington (N. Devon)	68	40	61·4	44·9	52·7	+ 1·9	75	0	1	0·11	−0·57	*	*	*	*
	Cullompton ℳ	76	35	66·7	47·8	56·7	+ 4·4	103	0	1	0·05	−0·40	44·1	− 1·4	40	− 2
	Falmouth	70	42	61·5	49·4	55·1	+ 2·5	92	0	1	0·02	−0·51	70·5	+18·5	65	+17
	Plymouth	67	40	62·2	49·3	55·4	+ 1·3	94	0	1	0·01	−0·46	60·6	+12·4	56	+11
	Prawle Point	72	40	66·0	48·9	56·9	+ 4·6	104	0	1	0·04	−0·30	*	*	*	*
9. IRELAND, N.	Malin Head	60	43	54·6	48·7	51·5	+ 1·2	67	0	4	0·71	?	*	*	*	*
	Londonderry	67	43	59·7	47·8	53·4	+ 1·6	80	0	6	0·64	+0·06	*	*	*	*
	Edenfel (Omagh)	67	40	56·9	44·3	50·2	+ 1·2	57	0	3	0·55	−0·02	*	*	*	*
	Belmullet	61	44	57·0	49·0	52·8	+ 1·5	76	0	4	0·69	+0·06	*	*	*	*
	Markree Castle	64	36	58·2	47·3	52·4	+ 2·2	73	0	4	0·59	−0·01	26·1	−15·7	23	−14
	Armagh	68	39	60·1	45·3	52·3	+ 1·9	72	0	5	0·51	+0·04	30·9	− 9·8	28	− 8
	Donaghadee	63	42	59·1	46·4	52·4	+ 1·6	73	0	3	0·26	−0·27	*	*	*	*
	Edgeworthstown	70	36	60·4	44·6	52·0	+ 1·8	70	0	4	0·28	−0·32	*	*	*	*
10. IRELAND, S.	Dublin	69	40	62·7	49·0	55·4	+ 2·7	94	0	5	0·17	−0·33	33·9	−13·1	31	−12
	Parsonstown	69	35	61·9	46·7	53·8	+ 2·4	83	0	5	0·51	−0·27	29·1	−11·7	26	−10
	Kilkenny	69	34	62·9	45·4	53·6	+ 2·2	81	0	3	0·19	−0·31	*	*	*	*
	Roche's Point	66	45	62·0	50·3	55·8	+ 2·8	97	0	2	0·03	−0·67	*	*	*	*
	Valencia	67	39	59·0	49·0	53·7	+ 0·8	82	0	3	0·12	−0·54	33·9	−10·1	34	− 9
	Killarney	69	35	60·9	45·3	52·6	+ 0·2	74	0	5	0·15	?	*	*	*	*
	Foynes	67	43	59·3	49·6	54·2	+ 3·0	85	0	4	0·28	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	48	60·3	51·9	55·9	+ 3·0	97	0	3	0·14	−0·25	64·7	?	60	?
	Jersey	67	46	61·9	49·9	55·5	+ 1·2	95	0	3	0·23	−0·22	47·2	− 9·6	44	− 9

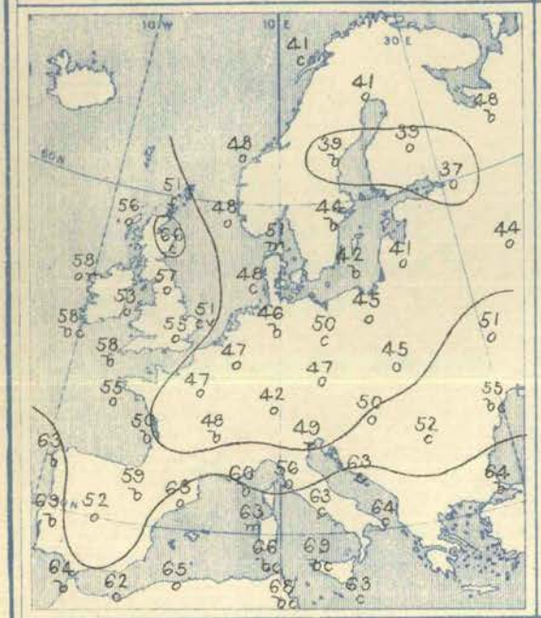
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 17th May.

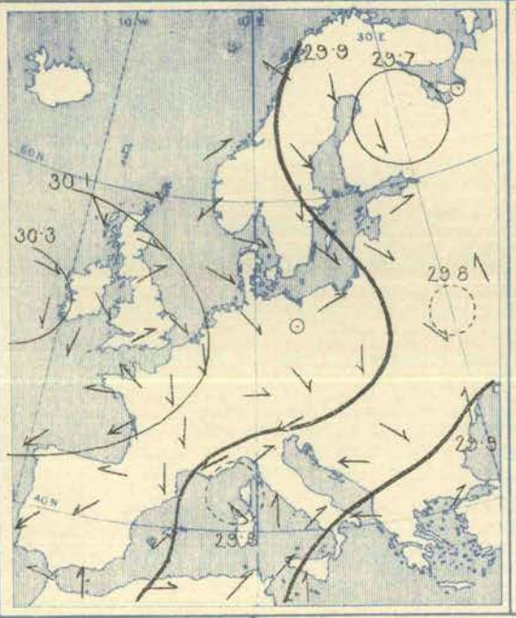
Temperature and Weather. 8 a.m.



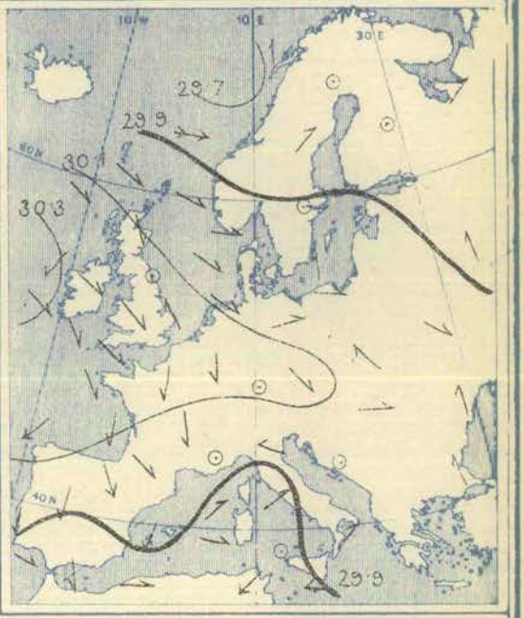
Weather cloudy or dull over our Islands as a whole, but fine on our south-west coasts, as well as in France and Spain. Fine and bright in Sweden, but dull over the northern and central parts of the Continent generally, as well as in northern Italy; rain falling at Trieste and Florence. Sky clearing later in the north of our Islands, but rain falling in the west of Norway, as well as in Russia, Austria, and northern Italy; thunderstorm occurring at Nice.

Temperature fallen in Spain, France, south Germany, Austria, and northern Italy, but risen elsewhere. Morning readings highest, (1) 69° at Lisbon and Palermo, 68° at Oporto and Sfax, and 66° at Cagliari; (2) 66° at Aberdeen, and 62° at Wick; (above 55° over the United Kingdom generally). Lowest, (1) 36° at Helsingfors, 37° at St. Petersburg, and 39° at Kuopio and Hernösand; (2) 41° at Cracow, and 42° at Munich. Rising later to 70° and upwards at several of our own northern and central stations, and reaching 75° at Leith. Exceeding 70° in many parts of southern Europe, and touching 79° at Lisbon.

Barometer and Wind. 8 a.m.



6 p.m.

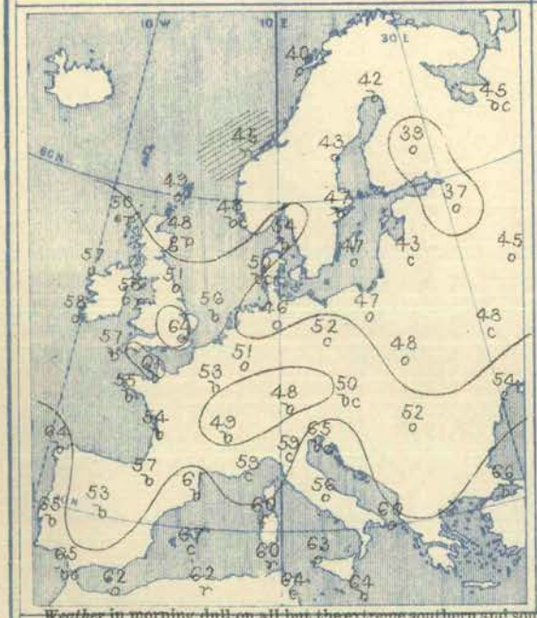


Wind light to moderate from the Westward or North-Westward over the United Kingdom generally, but Northerly or North-Easterly on our south-west coasts, and also over France and the Spanish Peninsula. Southerly in the west of Norway, but Northerly or North-Westerly over Sweden, Denmark, Germany, and Austria; Southerly over the central and southern parts of Russia, and also at most of the Italian stations. Subsequently falling light and variable over the southern parts of our Islands; strong Westerly gale setting in at Christiansund.

Barometer highest, 30·3 ins. and upwards over the southern parts of Ireland; 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the greater part of western Europe. Lowest, 29·7 ins. and less in a shallow depression over Finland; 29·8 ins. and less in another disturbance over Corsica and the Gulf of Genoa. Depressions both disappearing later, but new one approaching the Norwegian coasts from the westward.

Monday, 18th May.

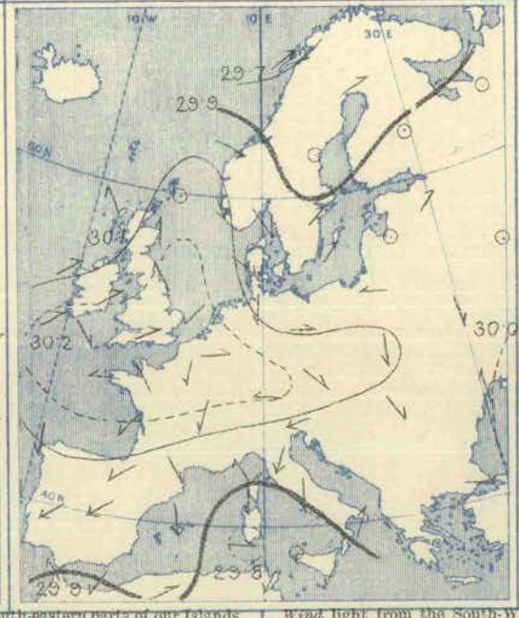
Temperature and Weather. 8 a.m.



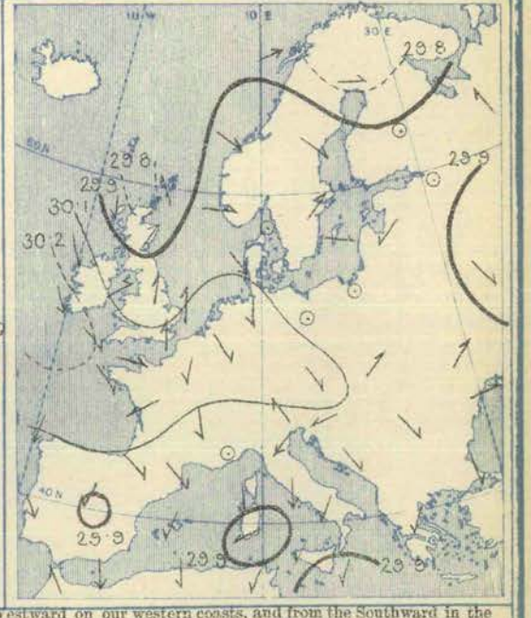
Weather ~~in morning dull on all but the extreme southern and south-eastern parts of our Islands~~, with rain at Stornoway and Aberdeen. Fine over the greater part of the Continent, but dull over Russia, Scandinavia, the Baltic, and north Germany, with rain at Christiansund and Copenhagen. Dull also in Italy and Algeria, with rain at Algiers. Rain falling later in the west and north of our Islands generally, and also at many of the Scandinavian and Russian stations—amount rather large in the west and north of Scotland. Thunder and lightning occurring at Spurn Head and Nice.

Temperature fallen in the north of our Islands, as well as in many parts of southern Europe, but risen elsewhere. Morning readings highest, 67° at Palma, 66° at Barcelona and Constantinople, and 65° at Lisbon and San Fernando; above 60° at most of the Mediterranean and Spanish coast stations, and also over the central parts of England and Ireland. Lowest, 37° at St. Petersburg, 39° at Kuopio and Memel, 40° at Bodö and Kharkov, and 41° at Hangö. Rising during day to between 70° and 75° in many parts of England and France, and reaching 77° in London; touching 81° at Lisbon, and 84° at Oporto.

Barometer and Wind. 8 a.m.



6 p.m.



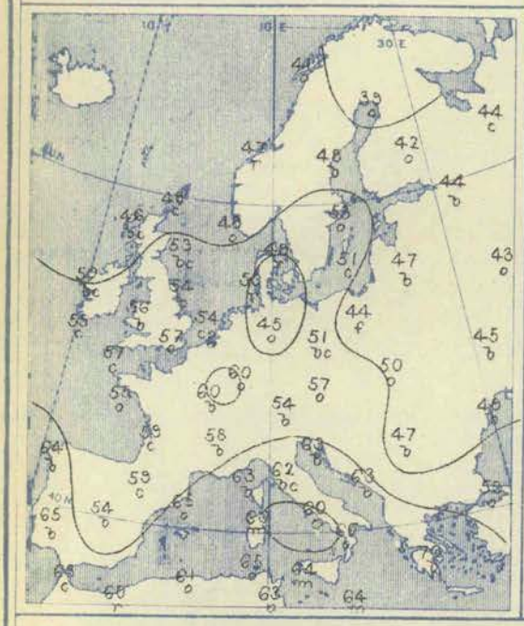
Wind light from the South-Westward on our western coasts, and from the Southward in the north, but variable over the central and southern parts of England. Strong from the North-Westward on the eastern shores of the North Sea; light from the Westward in Germany; South-Westerly in the south of Sweden; calm or variable over Russia and the north of Sweden. Light to fresh from the North-Eastward or Eastward over France, Spain, and northern Italy; variable over Algeria and southern Italy. Subsequently shifting to the North-Westward in Ireland and the west of Scotland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone covering England, the south of Ireland, the Netherlands, and the northern parts of France. Lowest, 29·7 ins. and less in a depression over the north of Scandinavia; 29·8 ins. and less in a shallow system off the Sardinian coasts. Well-marked "V" shaped depression advancing over our Islands later from the westward, and barometer falling rather quickly on our north and north-east coasts; rising again in west towards evening.

Tuesday, 19th May.

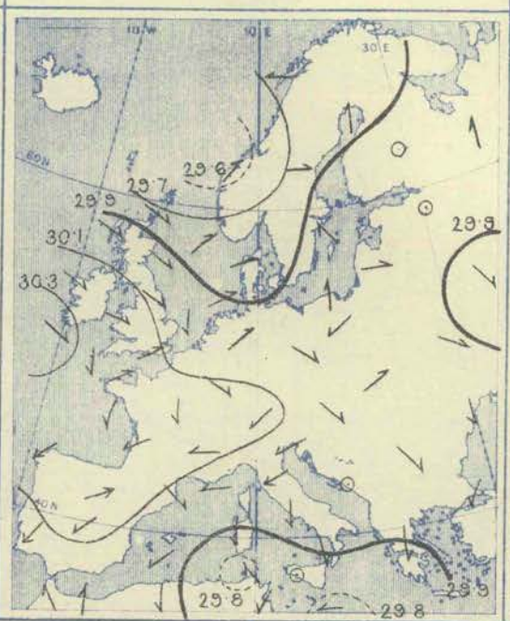
Temperature and Weather.

8 a.m.

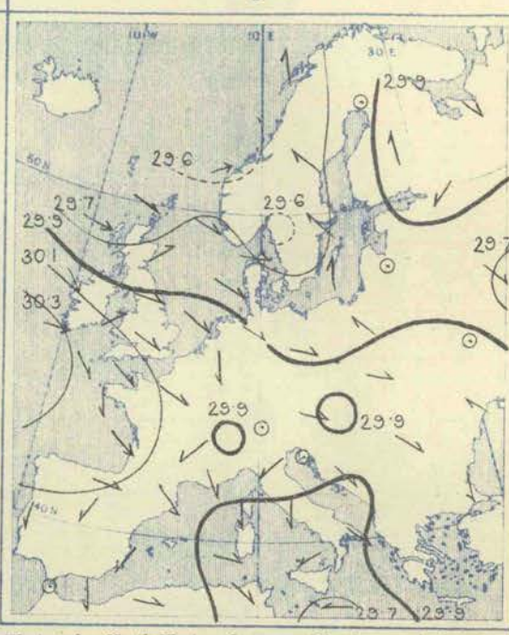


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of western, central, and southern Europe, but showery over the south-eastern parts of England. Dull in most of the northern countries, with rain at several of the Norwegian and Danish stations, as well as at Helsingfors. Rain setting in later over the northern parts of our Islands generally, as well as in Scandinavia, Denmark, and Germany—amounts rather large on some parts of our extreme north and north-west coasts. Solar and lunar halos seen in the south of England.

Temperature changed very irregularly. Morning readings highest, 70° at Oporto and Patras, 69° at Athens, and 65° at Lisbon, Barcelona, Palma, and Cagliari; above 60° at the Mediterranean and Spanish coast stations generally, and very little below it in the south-east of England. Lowest, 29° at Haparanda, Hangö, and Helsingfors, 41° at Bodö, 42° at Kuopio, and 43° at Moscow. Rising during day to between 65° and 70° over the southern parts of England generally; exceeding 70° in France; exceeding 75° over the Spanish Peninsula, and reaching 86° at Oporto.

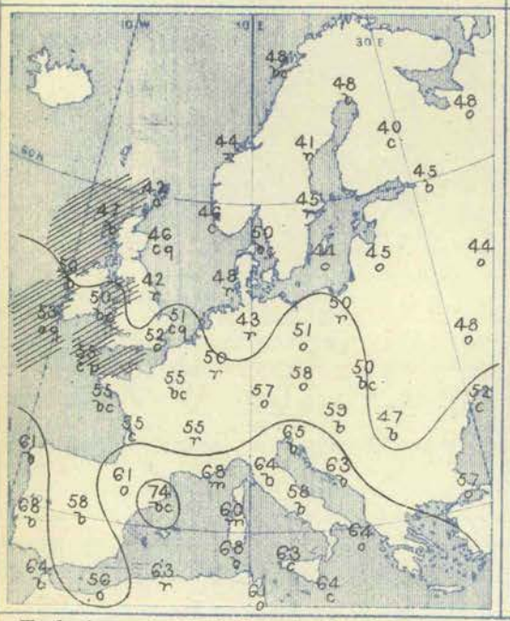
Wind light to fresh from the Westward or North-Westward over our Islands as a whole, but Northerly at the mouths of the Bristol and English Channels. Light to moderate from the North-Westward over Norway, Denmark, and north Germany, and from the South-Eastward in the south of Sweden. Calm or variable over the northern parts of Sweden and Russia; North-Westerly over Austria and the southern parts of Germany and Russia; Northerly in Greece and Italy; Easterly or North-Easterly at most of the French and Spanish stations. Subsequently increasing in force on our extreme north and north-west coasts, and blowing a gale from the North-Westward at night.

Barometer highest, 30·3 ins. and upwards in an anticyclone extending from the Atlantic to the south of Ireland. Lowest, 29·6 ins. and less in a depression off the west of Norway; 29·8 ins. and less in two shallow systems—one lying over central Russia, and the other to the southward of Malta. New disturbance appearing later off our extreme northern coasts, and barometer falling briskly over the northern parts of our Islands generally.

Wednesday, 20th May.

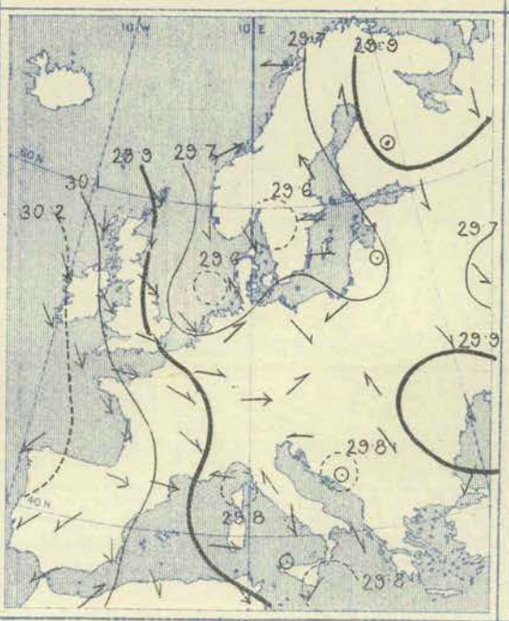
Temperature and Weather.

8 a.m.

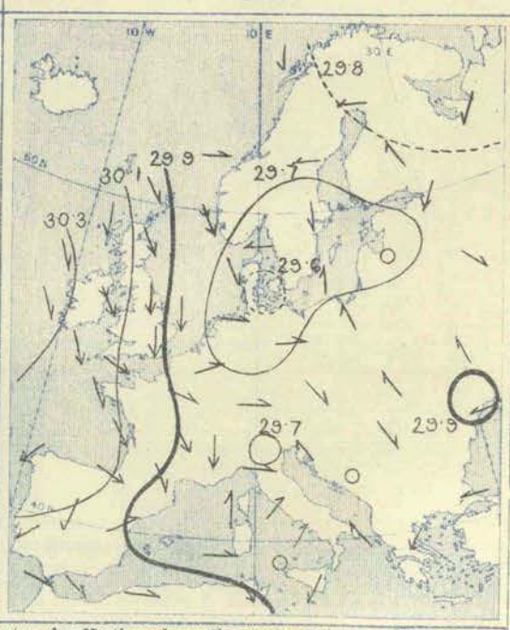


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the west and south of our Islands, but squally and showery in the northern, eastern, and central districts. Fine over southern Europe generally, and also over the northern parts of Russia and Scandinavia; cloudy and unsettled over all the more central parts of the Continent, with rain in several places. Improvement taking place later in the north of our Islands, but weather remaining squally and showery in the east and south-east; thunder and lightning occurring in various parts of England, and also at Vienna.

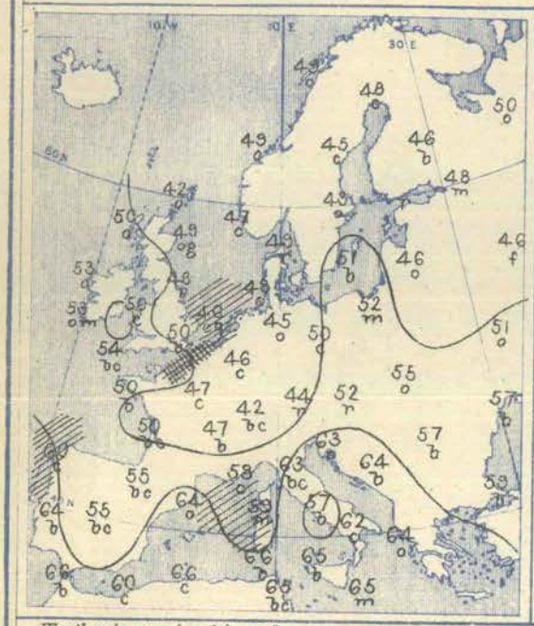
Temperature fallen decidedly in all parts of north-western Europe, but risen slightly elsewhere. Morning readings highest, 74° at Oporto and Barcelona, 68° at Toulon and Lisbon, and 67° at Nice and Perpignan; above 60° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, (1) 40° at Kuopio, 41° at Hernösand, and 42° at Hangö; (2) 42° at Sumburgh Head and Shields, and 44° at Wick. Remaining at or below 50° all day at several of our northern stations, but touching 60° at Leith, and slightly exceeding that point at some of the English Channel stations; exceeding 70° over southern Europe generally, and reaching 83° at Barcelona. Ground frost occurring over the inland parts of our Islands at night.

Wind strong from the North-Westward or Northward over the greater part of our Islands and France, with a gale on our north-west coasts. Moderate to fresh from the Westward over the Netherlands and the south-east of England; South-Westerly over western Germany; South-Easterly in Finland and Sweden. Variable over Russia, Austria, and eastern Germany; Northerly in Italy; North-Easterly over the Spanish Peninsula. Subsequently veering to the Northward in the east and south-east of England, and blowing with the force of a gale in squalls. Gale moderating on our north-west coasts.

Barometer highest, 30·2 ins. and upwards in a large anticyclone extending from the Atlantic over the southern parts of Ireland and the extreme north-west of Spain. Lowest, 29·6 ins. and less in two depressions—one lying over the south of Sweden, and the other over the southern parts of the North Sea; 29·7 ins. and less in a shallow disturbance over central Russia; 29·8 ins. and less in a small system near Malta. Depressions over Sweden and the North Sea subsequently moving south-eastwards and beginning to fill up; barometer rising in all parts of the United Kingdom.

Thursday, 21st May.

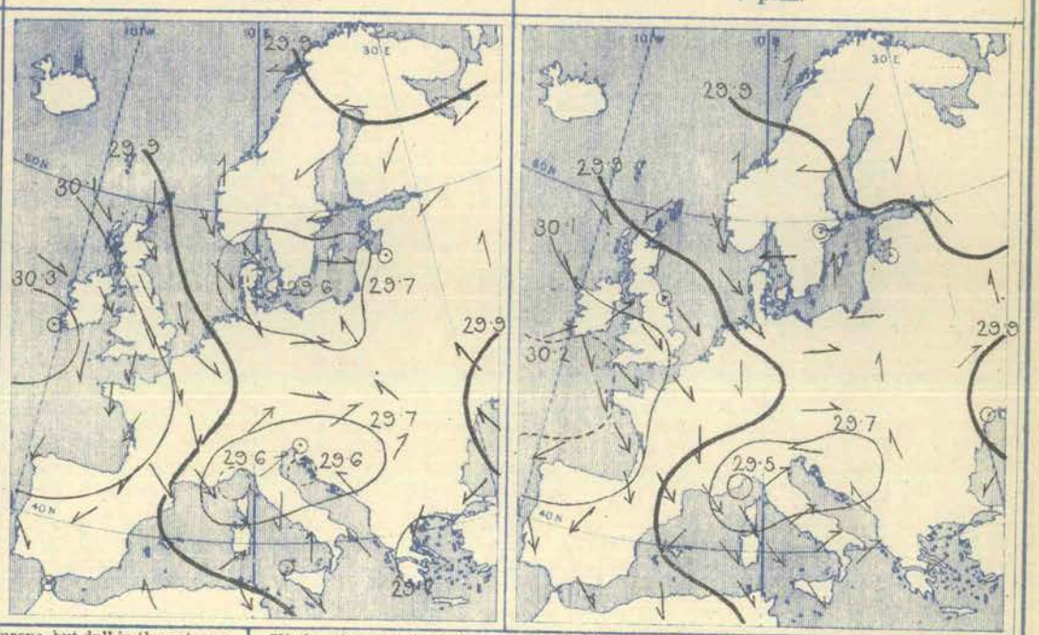
Temperature and Weather. 8 a.m.



Weather in morning fair or fine over western and southern Europe, but dull in the extreme west and north of our Islands, and showery along the east coasts of England. Cloudy or dull over the northern and central countries, with rain at Hangö and Skagen, and also at Munich and Vienna. Rain setting in later over the west and north of our Islands, and spreading at night to all other parts of the Kingdom. Solar and lunar halos seen in the south of England. Rain falling over the Adriatic and northern Italy—heavily at Trieste. Thunderstorm occurring at Nice.

Temperature fallen in the south of our Islands, and also over the Netherlands, France, Spain, and Germany, risen elsewhere. Morning readings highest, 66° at Cagliari, San Fernando, and Algiers, and 65° at Pesaro, Palermo, Malta, and La Calle; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, (1) 42° at Sumburgh Head, and 43° at Stockholm; (2) 42° at Belfort, and 44° at Munich. Daily maxima exceeding 60° in many parts of Great Britain and France, and reaching 65° at Leith. Exceeding 70° over southern Europe generally, and reaching 81° at Hermanstadt.

Barometer and Wind. 8 a.m. and 6 p.m.

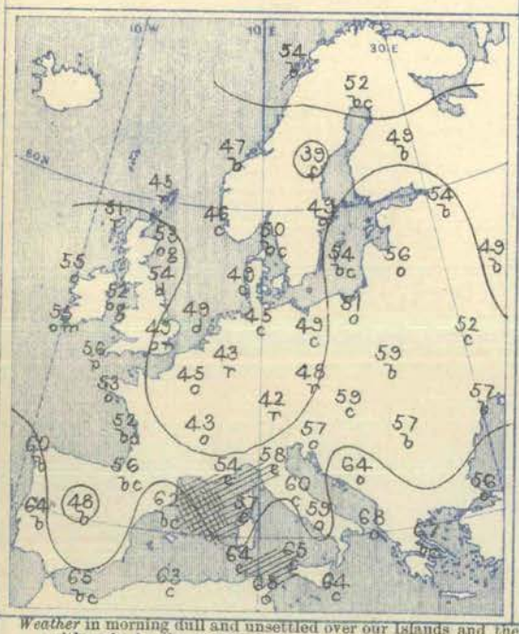


Wind moderate to fresh from the North-Westward over Great Britain and the eastern and southern shores of the North Sea, but Westerly in Ireland. Light from the Eastward or North-Eastward over the northern parts of Russia and Scandinavia; varying between South-West and South-East at the Baltic stations; light from the South-Westward in Austria. Variable in Italy; Northerly or North-Easterly over France and Spain. Subsequently backing to the South-Westward or Southward at many of our own northern stations. Cyclonic circulation of strong winds setting in over northern Italy and the south of France.

Barometer highest, 30·3 ins. and upwards in the south of England; 30·1 ins. and upwards in an anticyclone extending from the Atlantic over all but the eastern parts of our Islands and France. Lowest, 29·6 ins. and less in two small depressions—one lying over Denmark, and the other over the Gulf of Genoa; 29·7 ins. and less in another disturbance over the Grecian Archipelago. Shallow depressions appearing later over our own western and northern coasts, and barometer falling over the United Kingdom generally. Depression over Gulf of Genoa increasing in depth.

Friday, 22nd May.

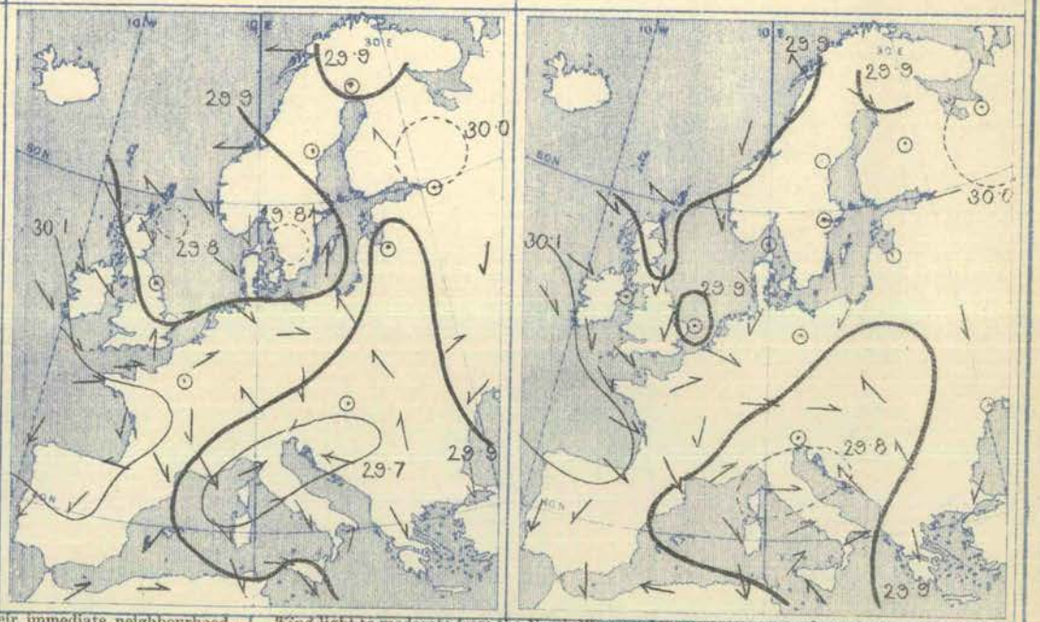
Temperature and Weather. 8 a.m.



Weather in morning dull and unsettled over our Islands and their immediate neighbourhood, with rain in the north of Scotland, the central and south-eastern parts of England and the Netherlands; passing showers on our south-west coasts. Fair at most of the Scandinavian, Danish, and Russian stations, as well as in Greece, Spain, and the west and south of France; dull in other parts of the Continent, with rain in south Germany. A little rain falling later in most parts of Great Britain and the north and west of Ireland, as well as at many of the Continental stations. Thunderstorm occurring at Sfax.

Temperature fallen in France, Spain, and Germany, but risen in most other countries. Morning readings highest, 68° at Brindisi and Sfax, 67° at Patras, and 65° at Oporto, Palermo, and Nemours; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, (1) 39° at Hernösand, 45° at Sumburgh Head, and 46° at Skudesnaes; (2) 42° at Munich, and 43° at Brussels and Lyons. Rising during day to 60° or a little above it at many of our own central and southern stations, and to 65° at Leith; exceeding 70° over southern and south-eastern Europe, and reaching 79° at Lisbon, Brindisi, and Hermanstadt.

Barometer and Wind. 8 a.m. and 6 p.m.



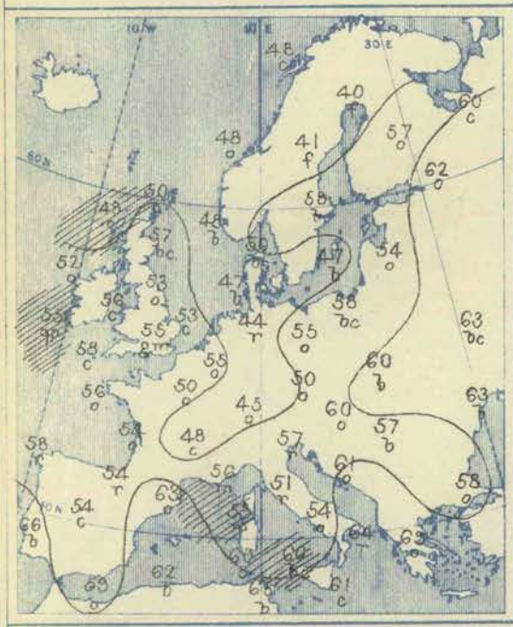
Wind light to moderate from the North-Westward on our western and northern coasts; light from the South-Westward over the greater part of England, the Netherlands, and the north of France. Calm or Southerly in Sweden; Easterly in the west of Norway; Northerly in the south of that country; Westerly over Denmark and Germany. Light and variable in Russia; cyclonic circulation of fresh or strong breezes reported over northern Italy and the south of France, and moderate to strong breezes from the North-Eastward over the Spanish Peninsula.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying to the south-west of our Islands, with its south-east edge just touching the north-west of Spain; 30·0 ins. and upwards over the northern and extreme southern parts of Russia. Lowest, 29·7 ins. and less in an elongated depression stretching from the Gulf of Genoa to the south-western parts of Austria; 29·9 ins. and less in a large and complex area lying over the North Sea, Denmark, the southern parts of Scandinavia, and the northern and eastern parts of Great Britain. Depressions beginning to fill up later, but general distribution of pressure remaining somewhat irregular.

Saturday, 23rd May.

Temperature and Weather.

8 a.m.

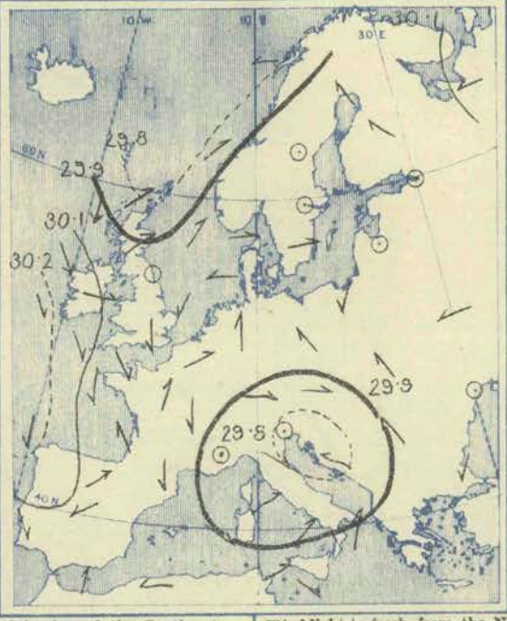


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain at several of our own northern stations, and also in various parts of central and southern Europe. Foggy in the north of Sweden; fine in Denmark and the south of Sweden, as well as in eastern Austria and the south of Russia. Showers falling during day in various parts of Great Britain and France, and heavy rain over south Germany and northern Italy; thunderstorms occurring at Vienna and Lesina.

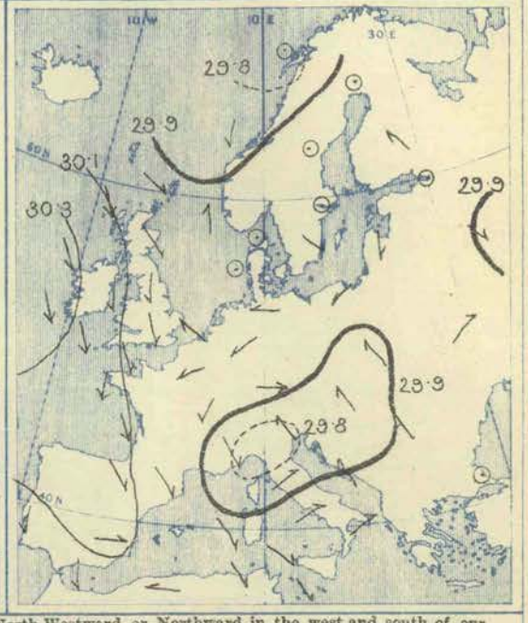
Temperature risen in most places, but fallen in Italy and the south of France. Morning readings highest, 69° at Patras, 66° at Lisbon, and 65° at Athens and La Calle; above 60° at many of the Russian stations and very little below it in the eastern parts of Ireland and Scotland. Lowest, (1) 40° at Haparanda, and 41° at Hernosand; (2) 44° at Cuxhaven, 45° at Munich, and 47° at Belfort. Rising during day to 65° and upwards in several parts of Great Britain and France, to 69° at Leith, to 70° at Perpignan, and to 72° at Prawle Point; exceeding 75° in some parts of Spain and Austria, and reaching 84° at Lemberg.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to fresh from the North-Westward or Northward in the west and south of our Islands and the north of France; light from the South-Westward in the east of Great Britain and the west and south of Norway. Calm in Sweden; light and variable over Germany, Denmark, the Baltic, and northern Russia. Light from the Westward in Austria, and from the South-Westward in Italy. Southerly over the central and the south-western parts of France, but Northerly or North-Easterly in Spain. Subsequently veering to the North-Westward on our eastern coasts; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying to the south-westward of our Islands; 30·1 ins. and upwards in another system over northern Russia. Lowest, 29·8 ins. and less in a "V" shaped depression lying to the northward of our Islands, and also in a shallow system lying over the south-western parts of Austria and the northern parts of the Adriatic. Anticyclone in south-west subsequently spreading north-eastwards; depression in far north moving eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

This week has witnessed a somewhat decided but temporary break in the spell of dry weather which had prevailed for so long over the British Islands. The anticyclonic system which had been spreading over our Islands and western Europe from the Atlantic for some weeks began to give way on Tuesday, and depressions of no great intensity appeared over Scandinavia, Scotland, and the North Sea, and subsequently spread over the east of England also at the same time that independent systems appeared over the Mediterranean. Temperature fell, showery weather spread all over the Kingdom (in the north and north-west the falls were considerable), and for a time it seemed as though the long continual drought had come to an end.

At the close of the week, however, the low pressure systems were filling up, and the Atlantic anticyclone again showed a tendency to spread over our Islands and their neighbourhood, bringing about a renewal of the dry weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.*

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	37·2	- 0·1	33	0	SOUTHPORT	42·1	?	38	?
OSWALDKIRK (Yorkshire)	18·9	-23·8	17	- 21	MANCHESTER (Oldham Road)				
WORKSOP	22·1	-17·7	20	- 16	COLWYN BAY	52·3	?	47	?
THURCASTON (Leicestershire)	30·7	-11·0	28	- 10	TENBY	50·6*	+ 9·8	54*	+ 9
MARGATE	22·7	-22·1	21	- 20	NEWQUAY	67·6	+19·1	63	+ 17
WESTBOURNE (Sussex)	40·7*	-10·7	37*	- 11	TORQUAY	52·8*	+ 2·6	49*	+ 3
BRIGHTON	39·9	- 9·2	37	- 8	ARLEY COTTAGE (County Cavan)	31·1	-11·9	28	- 10
EASTBOURNE	32·9	-18·5	30	- 17	GUERNSEY	62·0*	+ 1·8	58*	+ 1

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 22.] *Third Series.* WEEK ENDING SATURDAY, MAY 30TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 128.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	38	60·2	45·4	52·4	3 above	73	+23	0	− 3	575	+175	305	−312
	1. SCOTLAND, EAST	77	34	65·1	44·4	54·1	4 above	85	+20	0	− 2	709	+198	408	−240
	2. ENGLAND, N.E.	72	37	58·5	44·8	51·3	0 (average)	65	+ 3	0	− 1	647	+149	327	−221
	3. ENGLAND, EAST	77	39	61·1	45·1	52·6	1 below	74	− 6	0	− 2	721	+ 76	388	−228
	4. MIDLAND COUNTIES	78	35	64·4	44·2	53·7	1 above	82	0	0	− 1	819	+137	372	−246
	5. ENGLAND, SOUTH	78	41	63·4	47·2	54·8	1 above	90	+ 2	0	− 1	848	+126	237	−239
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	71	37	63·8	45·9	54·3	3 above	86	+16	0	− 1	754	+200	234	−227
	7. ENGLAND, N.W.	67	38	61·5	46·5	53·5	1 above	81	+ 6	0	− 1	779	+205	201	−257
	8. ENGLAND, S.W.	77	33	65·7	47·0	55·8	2 above	97	+15	0	0	933	+220	155	−206
	9. IRELAND, NORTH	75	36	61·3	45·4	53·8	2 above	83	+11	0	− 1	862	+229*	162	−232
	10. IRELAND, SOUTH	73	36	66·8	46·7	56·2	3 above	99	+20	0	− 1	1036	+265	89	−210
	—CHANNEL ISLANDS	65	49	61·0	51·3	55·9	1 above	97	+10	0	0	1137	+304	39	−109

Rainfall.

	DISTRICTS. (See p. 128.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½	6 less	105	+ 4	23·5	+ 3·1
	1. SCOTLAND, EAST	1	less than ½	5 less	74	− 7	7·1	− 4·5
	2. ENGLAND, N.E.	1	less than ½	5 less	62	−15	5·5	− 3·7
	3. ENGLAND, EAST	0	—	5 less	71	− 4	6·8	− 2·2
	4. MIDLAND COUNTIES	0	—	5 less	63	− 9	5·8	− 4·3
	5. ENGLAND, SOUTH	0	—	5 less	60	−10	5·4	− 5·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	7 less	82	− 4	15·2	− 3·8
	7. ENGLAND, N.W.	0	—	6 less	73	− 5	10·6	− 1·3
	8. ENGLAND, S.W.	0	—	5 less	63	−16	7·9	− 6·7
	9. IRELAND, NORTH	0	—	6 less	82	− 9	12·1	− 1·8
	10. IRELAND, SOUTH	0	—	6 less	71	−14	10·3	− 5·3
	—CHANNEL ISLANDS	0	—	5 less	70	−16	5·6	− 7·0

Bright Sunshine.

	DISTRICTS. (See p. 128.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	+19	47	+16	455	− 10	25	− 1
	1. SCOTLAND, EAST	55	+13	47	+11	588	+ 57	33	+ 3
	2. ENGLAND, N.E.	32	−10	28	− 9	530	+ 2	29	0
	3. ENGLAND, EAST	54	+ 6	49	+ 6	582	− 23	32	− 2
	4. MIDLAND COUNTIES	47	+ 1	42	+ 3	561	+ 8	31	0
	5. ENGLAND, SOUTH	60	+11	54	+ 9	590	− 39	33	− 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	+31	65	+26	580	+ 31	32	+ 1
	7. ENGLAND, N.W.	55	+11	48	+10	541†	+ 50	33	+ 3
	8. ENGLAND, S.W.	74	+24	67	+22	694	+ 26	38	+ 1
	9. IRELAND, NORTH	77	+35	67	+30	534	+ 1	30	0
	10. IRELAND, SOUTH	77	+32	69	+29	592	− 22	33	− 1
	—CHANNEL ISLANDS	74	+11	68	+10	767	− 1	42	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was again very fine and dry in all parts of the Kingdom, the only rain experienced being slight amounts at some of our northern stations.

Temperature continued above the mean in nearly all districts, especially in Scotland and the south of Ireland, but only just equalled it in England N.E., while in England E. it was 1° below the normal. The highest of the maxima occurred, as a rule, on the 29th, and ranged from 78° in England S. and the Midland counties, and 77° in Scotland E., and England E. and S.W., to 67° in England N.W., and 65° in the Channel Islands. The lowest of the minima were recorded either on the 25th or 26th, when they ranged from 33° in England S.W., and 34° in Scotland E., to 41° in England S., and to 49° in the Channel Islands.

Rainfall was entirely absent from by far the greater part of the United Kingdom, but some very slight falls were experienced at some of the northern and north-eastern stations.

Bright Sunshine was deficient in England N.E., but abundant over the more western parts of the Kingdom. The percentage of the possible duration ranged from 65 to 69 in all the "grazing districts" excepting England N.W., and from 42 to 54 in most other parts of the country; in England N.E., however, the percentage was only 28.

Barometer and Wind.—The distribution of pressure over our Islands was anticyclonic throughout the period, an area of high pressure spreading in from the Atlantic over the greater part of the Kingdom. The winds were light or moderate in force, and varied in direction from West or North-West in the north, to North-East and East over all the more southern districts.

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* Erratum.—The corresponding value in last week's report should read "+218."

† This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 127 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	38	54·0	44·3	48·8	+ 2·1	48	0	2	0·08	−0·37	*	*	*	*
	Stornoway	63	39	59·0	46·1	52·2	+ 3·7	71	0	1	0·05	−0·58	54·7	+12·3	46	+11
	Wick	62	42	58·4	47·9	52·8	+ 4·1	76	0	3	0·19	−0·29	*	*	*	*
	Glencarron (S)	68	40	61·2	44·5	52·4	+ 3·3	73	0	1	0·01	−1·17	*	*	*	*
	Fort Augustus (S)	70	38	63·8	43·4	53·0	+ 2·5	77	0	0	—	−0·42	48·0	+19·5	41	+17
	Fort William (S)	71	43	64·9	46·1	54·9	+ 3·3	90	0	0	—	−0·80	63·7	+24·2	54	+21
1. SCOTLAND, E.	Nairn	68	40	64·3	45·3	54·2	+ 3·0	85	0	1	0·03	−0·33	*	*	*	*
	Aberdeen	66	42	60·6	45·9	52·8	+ 2·6	76	0	3	0·04	−0·42	37·2	− 7·8	32	− 6
	Braemar (S)	70	34	66·1	41·1	52·9	+ 4·7	73	3	0	—	−0·48	64·3†	+22·3†	54†	+17†
	Ochtertyre (S)	77	38	73·3	42·9	57·2	+ 6·3	106	0	0	—	−0·62	*	*	*	*
	Leith	73	41	64·7	46·7	55·2	+ 2·7	92	0	1	0·01	−0·44	*	*	*	*
	Marchmont (S)	65	40	61·7	44·3	52·5	+ 2·4	74	0	0	—	−0·59	53·5	+10·7	46	+ 9
2. ENGLAND, N.E.	Alnwick Castle	63	38	58·1	44·3	50·8	+ 1·4	62	0	1	0·01	−0·21	*	*	*	*
	Durham	71	37	59·5	42·9	50·7	− 0·2	61	0	3	0·05	−0·45	33·6	− 3·5	32	− 3
	Shields	65	42	58·4	45·0	51·3	+ 0·9	65	0	1	0·01	−0·39	*	*	*	*
	Scarborough (M)	64	40	54·5	45·3	49·6	− 1·9	53	0	2	0·05	−0·45	*	*	*	*
	York	72	39	63·1	44·4	53·2	0·0	78	0	0	—	−0·49	23·7	+19·5	21	−17
	Spurn Head	66	45	57·4	47·0	51·9	+ 0·6	69	0	0	—	−0·41	*	*	*	*
3. ENGLAND, E.	Hillington (M)	72	39	60·7	44·2	52·0	− 1·2	70	0	0	—	−0·50	53·1	+ 4·9	47	+ 4
	Yarmouth	65	43	57·3	47·1	51·9	− 0·6	69	0	1	0·01	−0·46	*	*	*	*
	Geldeston	72	42	59·9	44·3	51·6	− 1·0	67	0	0	—	−0·45	50·0	− 1·5	45	− 2
	Cambridge	77	40	64·7	44·6	54·1	0·0	85	0	0	—	−0·50	58·1	+11·9	52	+11
	Rothamsted	75	41	63·0	45·1	53·5	+ 0·4	81	0	0	—	−0·48	56·0	+10·5	50	+ 9
4. MIDLAND COUNTIES	Harrogate (M)	70	39	61·3	44·0	52·1	− 0·1	71	0	0	—	?	30·0	−14·5	23	−12
	Bawtry (Hesley Hall)	72	35	65·6	41·7	52·9	− 0·5	76	0	0	—	−0·52	*	*	*	*
	Loughborough	73	35	63·9	43·6	53·1	− 1·3	78	0	0	—	−0·52	*	*	*	*
	Stamford (Ketton Hall)	78	37	66·0	44·6	54·7	+ 1·2	89	0	0	—	−0·54	*	*	*	*
	Cheadle (M)	66	41	61·0	44·7	52·4	+ 0·5	73	0	0	—	−0·60	*	*	*	*
	Shirley (near Solihull)	70	33	62·9	43·4	52·6	− 1·6	74	0	0	—	?	*	*	*	*
	Churchstoke (M)	75	37	66·1	43·0	53·9	+ 2·0	83	0	0	—	−0·57	59·1	+15·2	52	+13
	Hereford (M)	78	42	67·5	45·8	56·0	+ 1·9	98	0	0	—	−0·54	*	*	*	*
	Cirencester	75	40	64·6	43·6	53·5	+ 1·3	81	0	0	—	−0·54	66·8	+20·7	60	+18
	Oxford	75	44	65·3	47·1	55·7	+ 1·9	96	0	0	—	−0·48	60·8	+15·6	54	+13
5. ENGLAND, S.	London	77	45	65·9	47·4	56·1	+ 0·8	99	0	0	—	−0·48	52·2†	+10·1†	47†	+ 9†
	North Foreland	61	47	54·9	48·0	51·2	− 2·2	64	0	0	—	?	*	*	*	*
	Dungeness	63	47	59·6	48·7	53·8	+ 0·2	83	0	0	—	−0·41	*	*	*	*
	Hastings (St. Leonards)	67	41	63·2	45·3	53·7	− 0·4	82	0	0	—	−0·45	62·3	+ 7·5	56	+ 6
	Southampton	78	45	70·0	47·3	58·0	+ 3·0	112	0	0	—	−0·48	71·4	+21·4	64	+18
	Hurst Castle	68	45	65·0	48·3	56·2	+ 1·8	99	0	0	—	−0·45	*	*	*	*
	Stowell (M)	72	43	65·2	45·7	54·9	+ 2·5	90	0	0	—	−0·52	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	67	43	60·4	47·3	53·5	+ 2·0	81	0	0	—	−0·88	*	*	*	*
	Glasgow	70	43	66·7	47·0	56·3	+ 4·4	100	0	0	—	−0·62	71·3	+33·8	61	+29
	Ardrossan	66	45	62·6	46·9	54·3	+ 2·3	86	0	0	—	−0·58	*	*	*	*
	Glenlee (S)	71	37	65·7	42·1	53·2	+ 2·7	78	0	0	—	−0·80	*	*	*	*
	Douglas (Isle of Man)	68	40	62·5	46·2	54·3	+ 2·8	86	0	0	—	−0·58	78·3	+27·3	69	+24
7. ENGLAND, N.W.	Stonyhurst	66	41	62·4	45·8	53·6	+ 1·3	81	0	0	—	−0·78	47·8	+ 3·1	42	+ 3
	Blackpool (M)	66	38	63·1	43·0	52·5	+ 0·3	74	0	0	—	−0·53	62·8	+17·9	55	+16
	Manchester (Prestwich)	67	39	64·1	45·1	54·0	+ 1·8	84	0	0	—	−0·68	45·0	?	39	?
	Liverpool Obsy. (Bidston)	66	45	61·0	47·9	54·1	+ 1·4	85	0	0	—	−0·50	*	*	*	*
	Llandudno (M)	63	44	60·1	48·4	53·9	+ 0·3	83	0	0	—	−0·48	*	*	*	*
	Holyhead	65	47	58·1	48·6	53·1	− 0·2	78	0	0	—	−0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	75	33	71·6	42·0	55·9	+ 2·5	97	0	0	—	−0·70	*	*	*	*
	Pembroke	65	47	61·3	48·9	54·7	+ 2·2	89	0	0	—	−0·50	74·2	+23·2	66	+21
	Arlington (N. Devon)	70	43	65·1	46·3	55·1	+ 3·2	92	0	0	—	−0·73	*	*	*	*
	Cullompton (M)	77	43	68·2	45·6	56·2	+ 2·8	99	0	0	—	−0·44	71·0	+24·5	64	+22
	Falmouth	65	47	62·5	49·1	55·4	+ 1·7	94	0	0	—	−0·52	82·5	+29·6	75	+27
	Plymouth	72	46	67·4	49·1	57·7	+ 2·2	110	0	0	—	−0·48	78·1	+29·2	71	+26
	Prawle Point	70	45	63·7	47·9	55·3	+ 2·4	93	0	0	—	−0·40	*	*	*	*
9. IRELAND N.	Malin Head	60	48	56·0	49·0	52·3	+ 0·7	72	0	1	0·05	?	*	*	*	*
	Londonderry	75	44	66·3	46·5	55·8	+ 2·5	97	0	1	0·01	−0·61	*	*	*	*
	Edenfel (Omagh)	71	37	65·4	43·7	53·9	+ 4·5	83	0	1	0·01	−0·59	*	*	*	*
	Belmullet	63	41	59·6	46·1	52·5	− 0·1	74	0	0	—	−0·63	*	*	*	*
	Markree Castle	70	36	63·5	43·5	52·9	+ 1·1	76	0	0	—	−0·69	72·9	+31·1	64	+28
	Armagh	70	40	65·5	43·7	54·0	+ 2·4	84	0	0	—	−0·48	76·2	+34·7	67	+31
	Donaghadee	65	42	62·7	47·0	54·4	+ 2·0	87	0	0	—	−0·55	*	*	*	*
	Edgeworthstown	72	38	67·4	43·7	54·8	+ 3·4	90	0	0	—	−0·66	*	*	*	*
10. IRELAND, S.	Dublin	72	43	64·5	48·4	56·0	+ 2·1	98	0	0	—	−0·50	79·2	+31·8	70	+28
	Parsonstown	71	38	68·4	43·3	55·1	+ 2·4	92	0	0	—	−0·59	69·5	+28·7	62	+27
	Kilkenny	73	36	69·0	44·4	56·0	+ 3·1	98	0	0	—	−0·50	*	*	*	*
	Roche's Point	73	41	64·6	50·0	56·9	+ 2·6	102	0	0	—	−0·72	*	*	*	*
	Valencia	71	40	65·1	49·0	56·6	+ 2·4	99	0	0	—	−0·63	83·2	+35·5	74	+31
	Killarney	72	37	68·2	42·9	54·8	+ 1·2	90	0	0	—	?	*	*	*	*
	Foynes	72	42	67·9	49·2	58·0	+ 5·5	112	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	50	59·6	51·6	55·4	+ 1·2	94	0	0	—	−0·43	81·9	?	74	?
	Jersey	65	49	62·3	50·9	56·3	+ 0·7	100	0	0	—	−0·47	71·3	+13·7	66	+13

Stations marked (M) are in connection with the Royal Meteorological Society, and those marked (S) with the Scottish Meteorological Society.

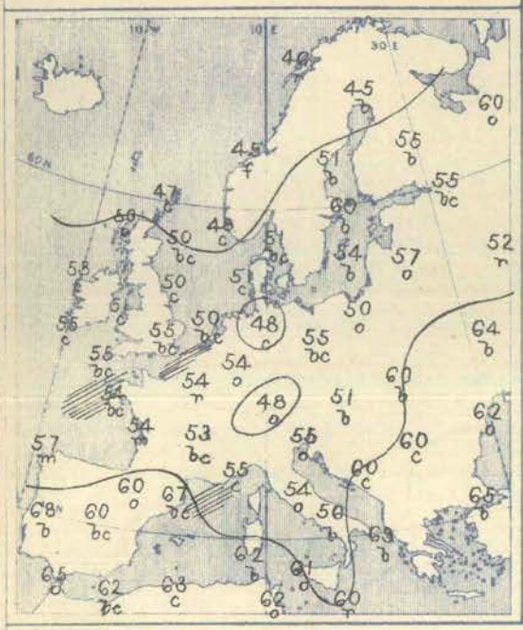
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 24th May.

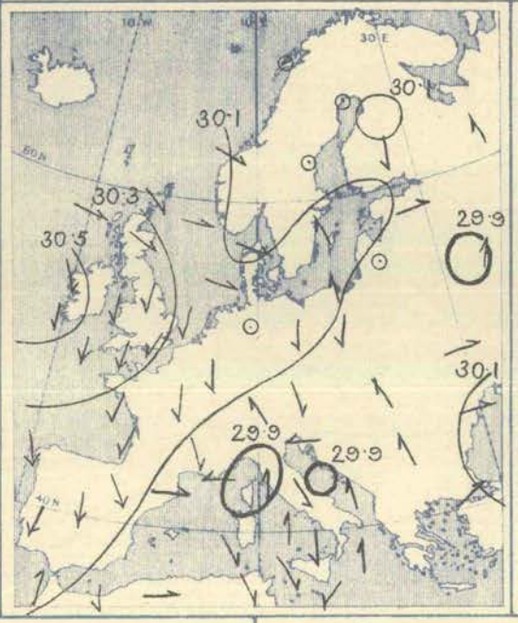
Temperature and Weather.

8 a.m.

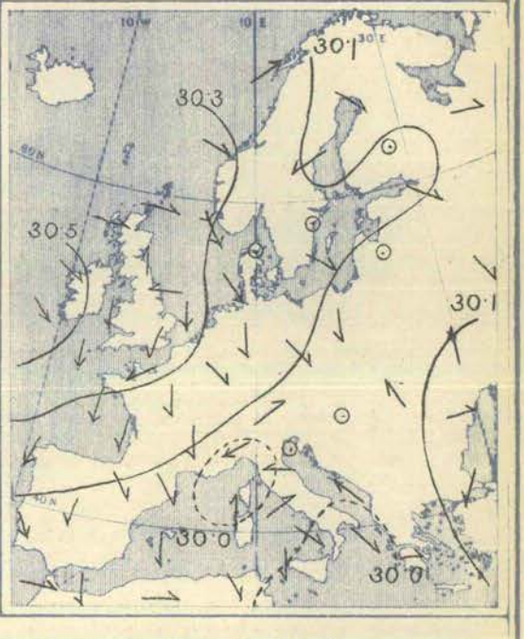


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or overcast in the extreme north of Scotland and the west of Norway, with rain at Bodö; fog at Christiansund; fine and bright over Ireland and England as a whole, but dull and in places rainy over France and central Russia. Some rain later at many of the Continental stations, but weather over the British Islands becoming fine and dry generally, and in most districts very bright.

Temperature not much changed. Morning readings highest, 69° at Brindisi, 68° at Lisbon, and above 60° at many stations on the coasts of south-western, southern, and south-eastern Europe, as well as at Archangel. Lowest, 45° to 48° on the coasts of Lapland and Norway, 47° at Sumburgh Head, 50° at Aberdeen and Yarmouth. Rising later to between 60° and 64° over many parts of the United Kingdom, to 68° at Berlin and Wiesbaden, to 73° at Naples, and to 82° at Lyons and Lisbon.

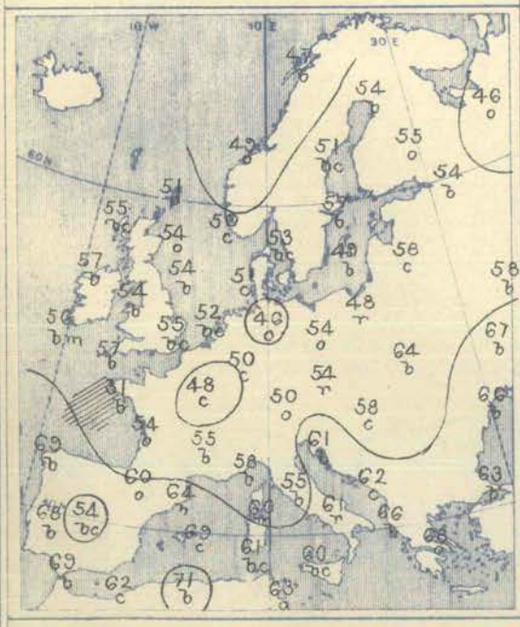
Wind light and anticyclonic from between North-West and North-East over the United Kingdom; very light and variable over the Continent as a whole, but cyclonic (very light) over the Riviera and north-eastern parts of the Mediterranean and the south of Italy. No decided change later.

Barometer highest, (1) 30·3 ins. and more to 30·2 ins. in the eastern part of an anticyclone spreading in from the Atlantic over the British Islands and their neighbourhood; (2) exceeding 30·2 ins. over the Black Sea. Lowest, 29·9 ins. and less in two shallow depressions (1) a simple system over central Russia; (2) a complex system over the northern parts of the Mediterranean and Adriatic. No decided change later.

Monday, 25th May.

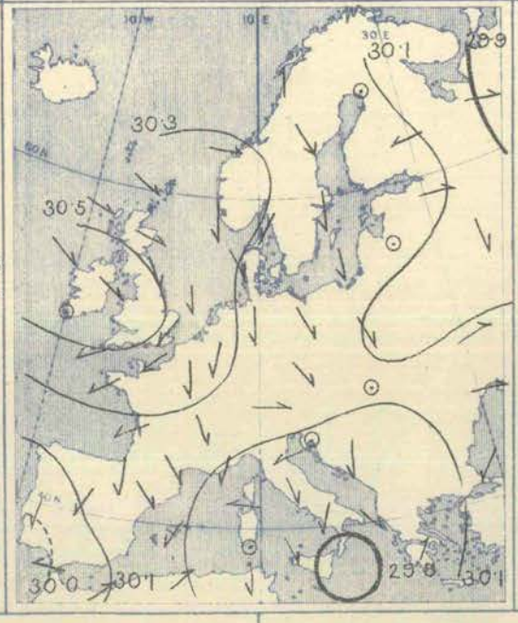
Temperature and Weather.

8 a.m.

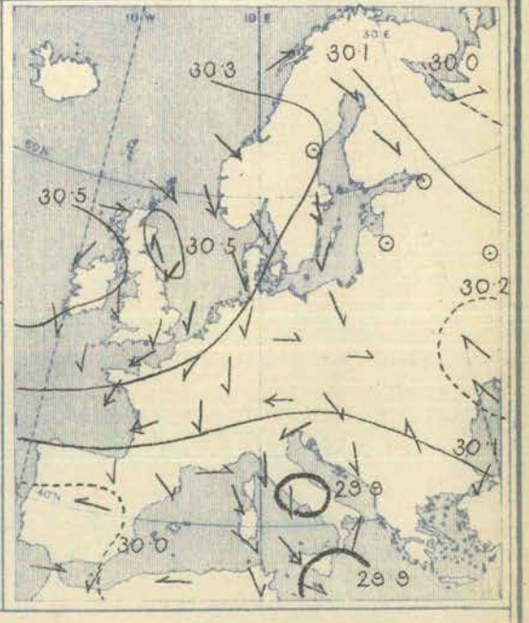


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over nearly the whole of the British Islands and their neighbourhood, as well as over the Mediterranean and south-eastern Europe; dull in the south-west of France, and over many parts of Russia and north Germany, with rain at several of the German stations and at Bilbao. Rain falling later in south Germany and in the west of Lapland; weather remaining dry over the United Kingdom and France.

Temperature risen a little over Ireland and Scotland, fallen over France. Morning readings highest, 71° at Algiers, 69° at Corunna and Palma, 68° at Patras, and above 60° at many of the Mediterranean and Adriatic coast stations, as well as over the south of Russia, Hungary, and Poland. Lowest, 46° at Archangel, 47° at Bodö, 49° at Christiansund and Wisby, 46° at Cuxhaven, and 48° at Neufahrwasser and Paris. Rising during day to between 56° and 60° in various parts of our Islands, to 63° at Paris, 68° at Nice, and 79° at Lisbon. Succeeding night cold over England.

Wind (1) light to fresh and anticyclonic over the British Islands and their neighbourhood—the North-Easterly wind at the southern stations being very dry; (2) chiefly Northerly and light over Sweden, the Baltic, and north Germany; Westerly over the south of Russia; North-Easterly and Northerly over the Mediterranean, but Southerly on the Algerian coast. No decided change later.

Barometer highest, 30·5 ins. and more to 30·2 ins. in a large anticyclone covering the British Islands and north-western Europe; 30·2 ins. and more in another over the Black Sea. Lowest, 29·9 ins. and less over the north-east of Russia, and 29·9 ins. to 30·0 ins. over the south-eastern parts of the Mediterranean. Rising a little over the northern countries later, falling over France, Spain, and the Azores.

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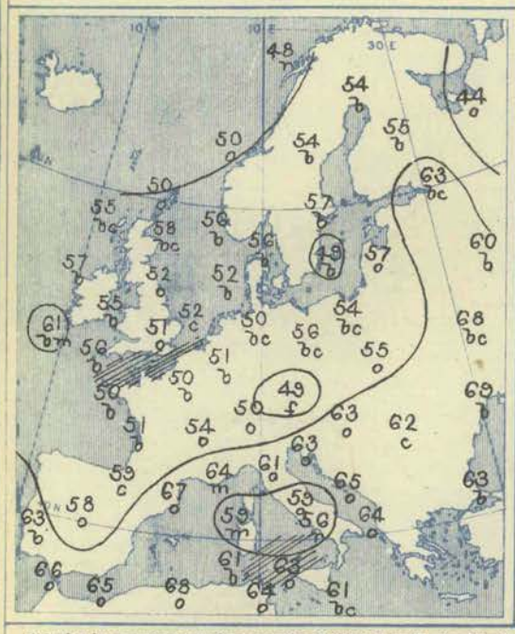
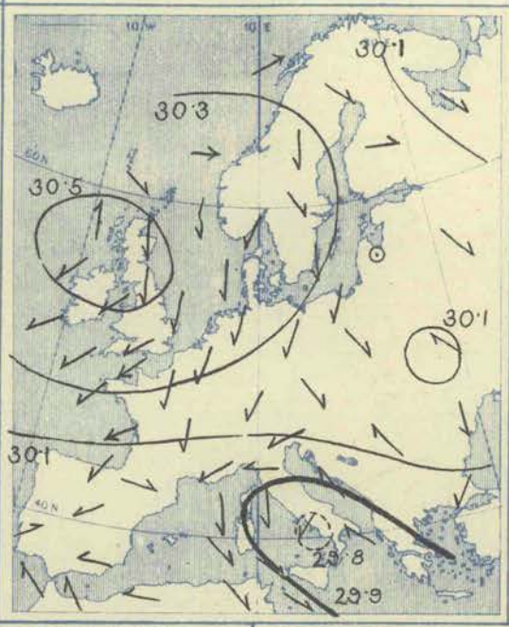
Tuesday, 26th May.

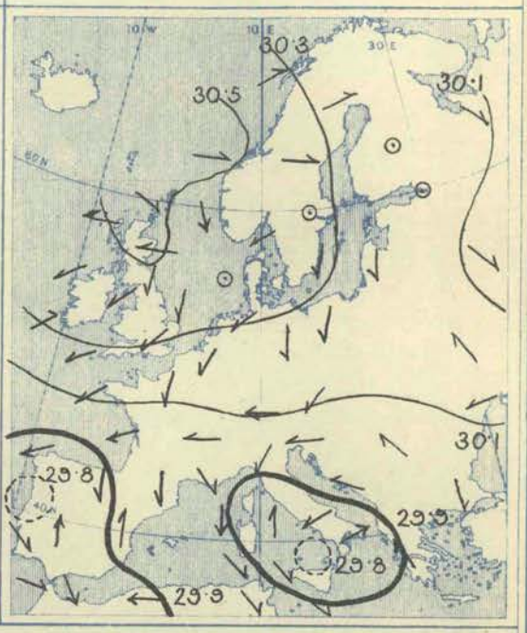
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine over the British Islands, the North Sea, Finland, the Baltic, north Germany, France, and Spain; dull over Finmark, with rain at Bodö; dull over central Europe and many parts of the Mediterranean, with rain at Naples and Pesaro. Rain falling later in the south of France, some parts of Germany and Scandinavia, and in the east of Scotland; weather remaining fine over Ireland, England, and the greater part of France, but a thunderstorm reported at Biarritz.

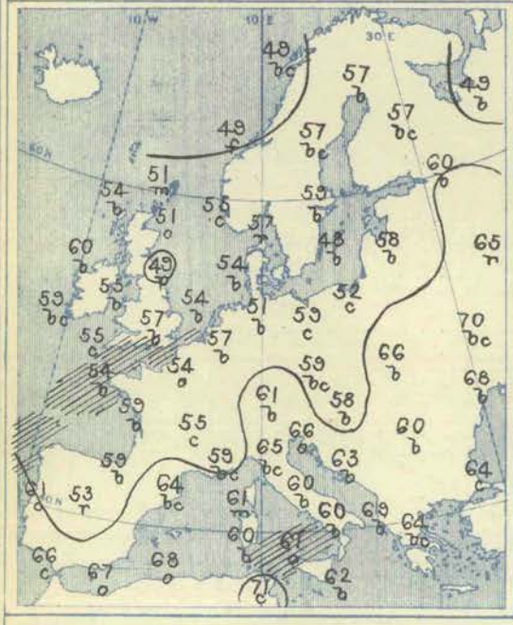
Temperature risen somewhat over Russia and south-eastern Europe. Morning readings highest, 69° at Odessa, 68° at Kiev and Algiers, 66° at San Fernando, and exceeding 60° at many of the Mediterranean and Russian stations, 61° at Valencia (Ireland), 60° at Leith. Lowest, 44° at Archangel, 48° at Bodö, 49° at Prague, 50° at Cuxhaven and Sumburgh Head. Rising later to between 60° and 67° over our Islands, to 71° at Paris and Lyons, and to 75° at Perpignan.

Wind (1) very light and anticyclonic over the northern parts of our Islands. Moderate to strong from the North-Eastward at our more southern stations and over the Bay of Biscay; (2) strong to a gale from South-West and West in the north-west of Norway; light to moderate from the Northward over the Baltic and central Europe; (3) a well-marked cyclonic circulation of light winds prevalent over the eastern parts of the Mediterranean. Easterly breeze spreading to Scotch stations later, but of no great force.

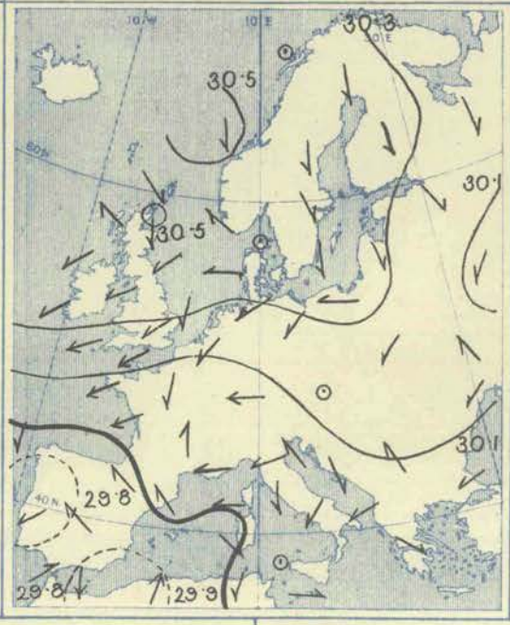
Barometer highest, 30·5 ins. and more over the northern half of the British Islands, and exceeding 30·3 ins. over the British Isles and north-western Europe generally. Lowest, below 29·8 ins. in a depression near Naples, and below 30·0 ins. over the north-east of Russia. Falling over south-western Europe later, rising in the far north. Shallow depression appearing off the Portuguese coast.

Wednesday, 27th May.

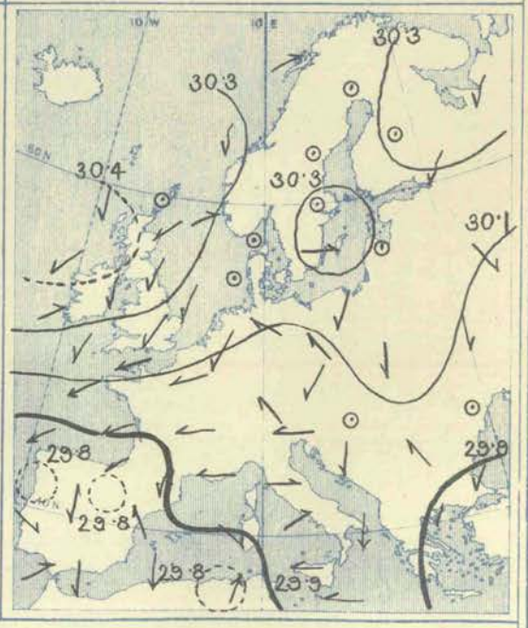
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the west and south of our Islands and the greater part of the Continent, but dull on our north and north-east coasts, with passing showers at Shields. Rainy at several stations in the Spanish Peninsula. Slight rain falling later in Denmark, and also in the Shetlands; thunderstorm, with rain, occurring at Biarritz; weather remaining dry over western Europe as a whole.

Temperature risen in most places, but fallen a little on our north and north-east coasts, and also over the Spanish Peninsula. Morning readings highest, (1) 71° at Sfax, 69° at Brindisi, 68° at Algiers, and 66° at Trieste and San Fernando; (2) 70° at Kiev, and 68° at Odessa; above 60° over southern and eastern Europe generally. Lowest, (1) 49° at Archangel, Bodö, and Christiansund; (2) 49° at Shields. Rising during day to 65° and upwards in many parts of England, and to 70° and upwards in the south of Ireland. Exceeding 75° at several of the German and southern French stations, and reaching 81° at Berlin.

Wind moderate to fresh from the North-Eastward or Eastward over Ireland, England, and the greater part of central and southern Europe. Variable in Scotland and the west of Norway; light from the Northward over Sweden and the northern parts of Russia; variable in the south of Russia and in Austria. No important change occurring over western Europe during day.

Barometer highest, 30·50 ins. at Wick and Christiansund; 30·3 ins. and upwards in an anticyclone covering all but the southern parts of our Islands and the greater part of northern Europe. Lowest, 29·8 ins. and less in two shallow depressions lying respectively over Portugal and over Algeria; 30·1 ins. and less in a still shallower system over central Russia. Anticyclone beginning to give way later, and barometer falling over north-western Europe generally.

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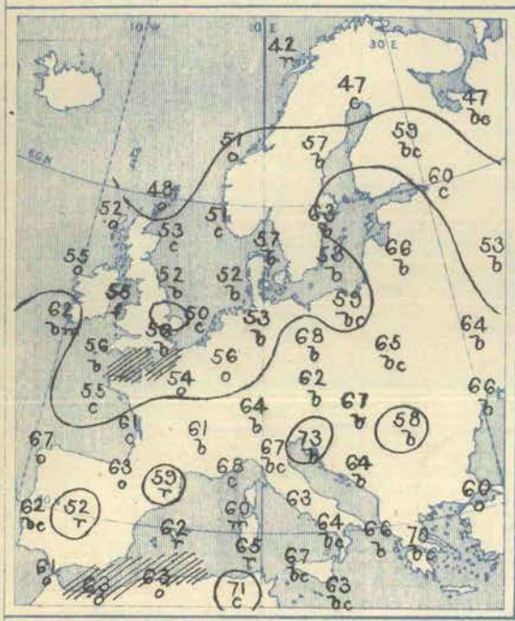
Thursday, 28th May.

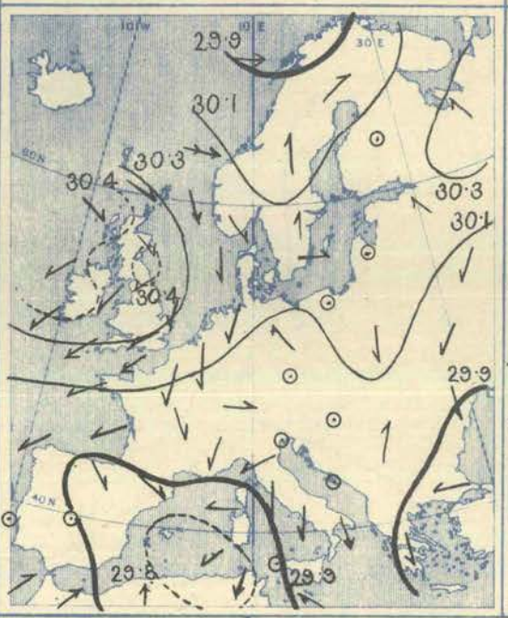
Temperature and Weather.

8 a.m.

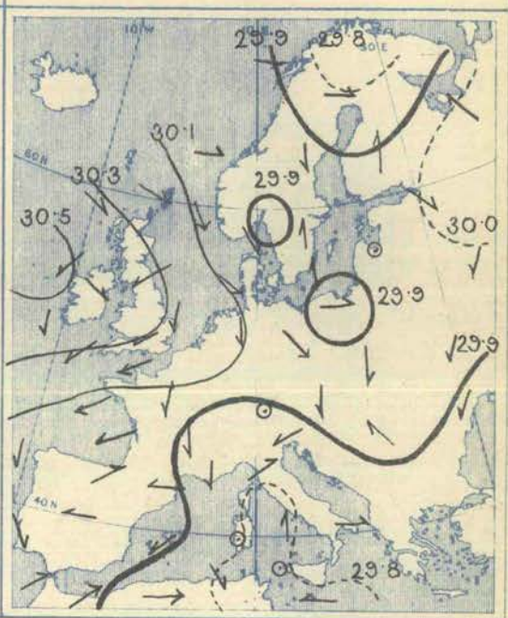


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Russia and central Europe, as well as over Portugal and the southern parts of the British Islands and the Baltic, less settled elsewhere; dull and rainy over the northern parts of Scandinavia; dull in the north of Scotland; dull and rainy over the western and southern parts of the Mediterranean. Rain falling later all over Scandinavia and Scotland, and a slight shower at Yarmouth; some rain at Paris, and a heavy thunderstorm at Rochefort.

Temperature not changing greatly, except over Russia and Lapland, where there was a considerable fall. Morning readings highest, 73° at Trieste, 71° at La Calle, 70° at Athens, and exceeding 60° at nearly all stations in southern and south-eastern Europe, 62° to 63° in the south of Ireland. Lowest, 42° at Bodö, 47° at Haparanda and Archangel, 48° at Sumburgh Head, 50° at York, Yarmouth, and Helder. Rising later to between 65° and 69° in many parts of our Islands, to 72° at Wisby, 79° at Paris, 81° at Lyons, 84° at Berlin.

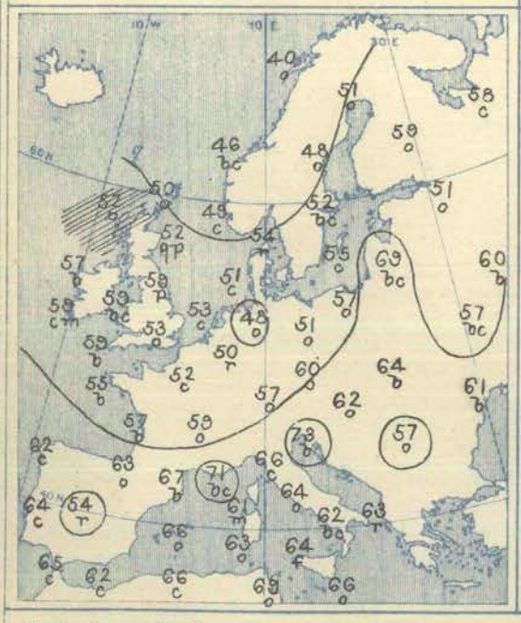
Wind (1) North-Westerly at our northern stations; Northerly to North-Easterly light to moderate over Ireland and England; North-Easterly strong to fresh on the French coast; (2) Westerly fresh to a gale in the north-west of Norway. Southerly over Sweden and Finland; South-Easterly in the north of Russia; (3) a separate cyclonic circulation over the Mediterranean, the Southerly and Westerly winds at the Algerian stations being very strong. Increasing from North-West in the north of Scotland later; little change elsewhere.

Barometer highest, (1) 30·4 ins. and more over the north-western parts of Ireland and Scotland, and exceeding 30·2 ins. over the whole of the British Islands and North Sea, the Netherlands, and the extreme south-west of Norway; (2) 30·3 ins. and more to 30·2 ins. over northern Russia and the Gulf of Finland. Lowest, (1) below 29·8 ins. in a depression lying over the western half of the Mediterranean and Tunis; (2) below 29·9 ins. in two other disturbances—one over the Black Sea and Asia Minor, the other over the western parts of Lapland. Falling rather decidedly over northern Europe and at the Scotch stations later; a new depression being developed over Scandinavia.

Friday, 29th May.

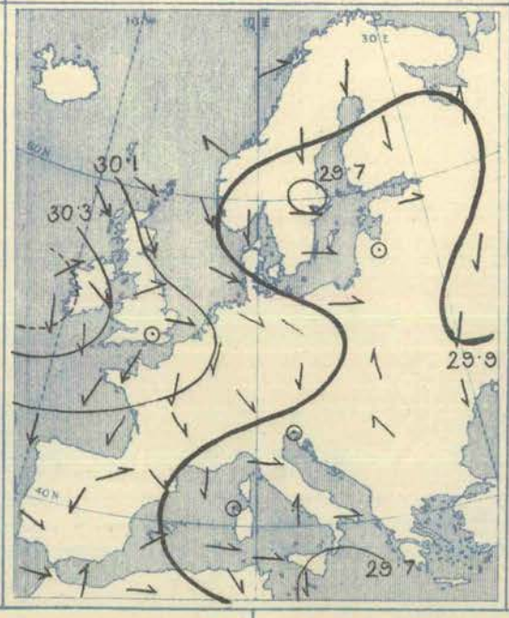
Temperature and Weather.

8 a.m.

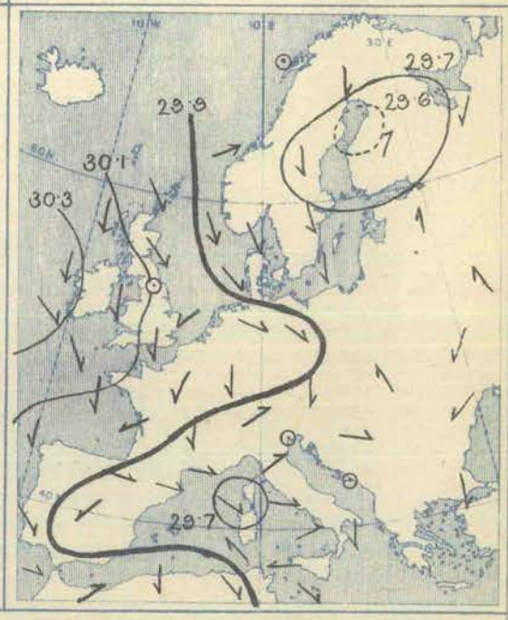


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the western and south-western parts of our Islands, the north and west of France, southern and central Russia; cloudy or overcast elsewhere and rather unsettled; rainy at Brindisi, Madrid, Brussels, the Scaw, Faerder, Aberdeen, and Shields. Rain falling very generally over Scandinavia later; slight local showers in the north of the British Isles, and thunderstorms occurring locally in the south-western and southern parts of Europe, and at Buda Pesth. Continuous sunshine in the south-west of our Islands.

Temperature risen decidedly over England. Morning readings highest, (1) 73° at Trieste, 71° at Cape Sicie, 66° at Algiers and Malta; (2) 69° at Riga and Warsaw, 64° at Breslau, 63° at Vienna. Lowest, 40° to 42° at the stations in Lapland, 46° at Christiansund and Karlstad, 50° at Sumburgh Head, 51° at Fanö, Berlin, and the North Foreland, 52° at Paris. Rising later to between 70° and 77° over many parts of England, to 71° at Parsonstown, and touching 82° at Nice, Perpignan, and the south of France generally, and to 84° at Cagliari.

Wind (1) North-Westerly to Westerly moderate to strong over the northern parts of our Islands; North-Westerly to North-Easterly light to moderate over our southern counties, the north of France, and the Bay of Biscay; (2) a well-defined cyclonic circulation of moderate to light winds reported over the Baltic and southern half of Sweden. Light and variable elsewhere. Small cyclonic circulation appearing temporarily over the eastern counties of England later, and strong Westerly winds setting in on the north-west coasts of Norway.

Barometer highest, 30·4 ins. to 30·1 ins. in the eastern portion of an anticyclone spreading in from the Atlantic over the British Islands, the Netherlands, and north of France. Lowest, about 29·7 ins. in a depression having its centre near Stockholm, and in another lying over the south-eastern parts of the Mediterranean; shallow secondary disturbances over the North Sea. A new but small shallow depression developed near London during day, but filling up again at night. No change of a decided character anywhere.

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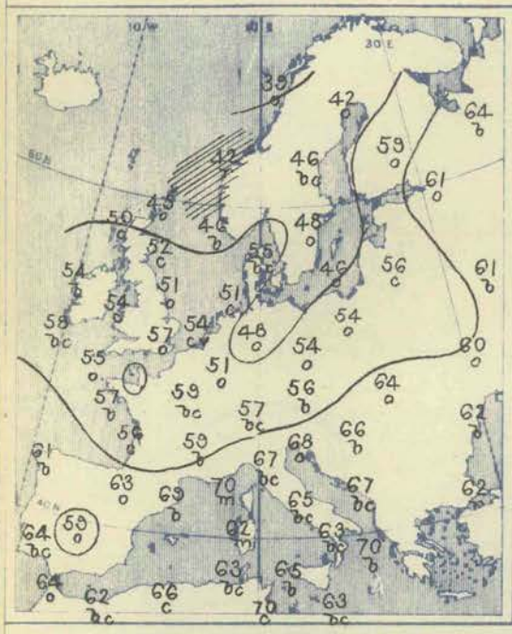
Saturday, 30th May.

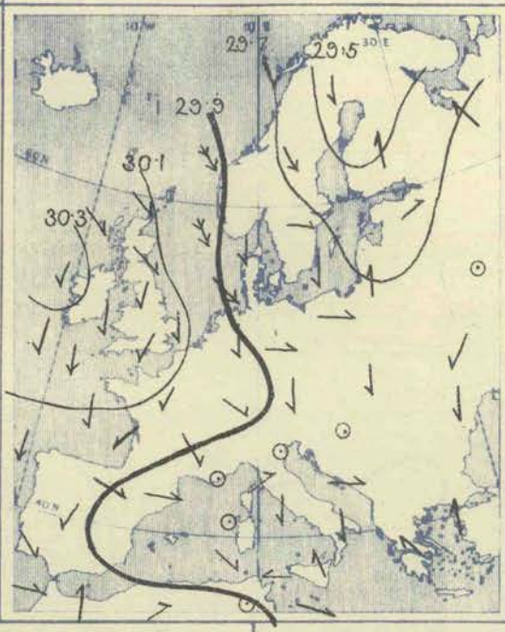
Temperature and Weather.

8 a.m.

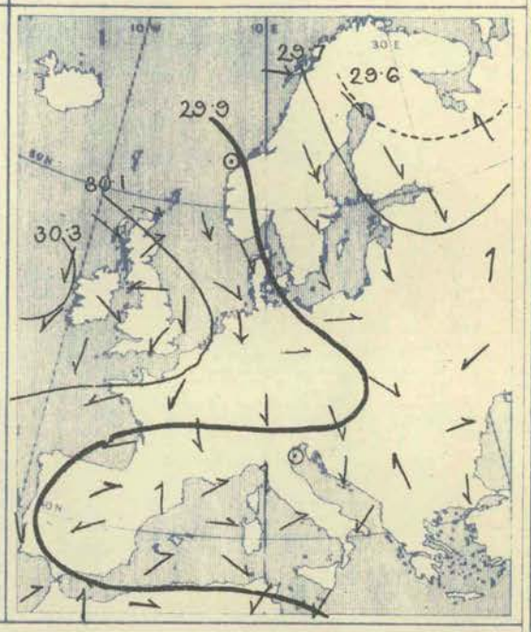


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over many parts of northern and central Europe, as well as over the northern and eastern parts of our Islands, with slight rain at Christiansund and at Helsingfors; fine and bright elsewhere. Heavy rain at Bodö later; thunder and rain in the south-west and south of France and over Austria-Hungary. Sky remaining overcast in some parts of England all day, but as a whole clearing very generally.

Temperature in morning highest, 70° at Tunis, Brindisi, and Cape Sicie, and 65° to 69° at many stations in southern Europe; exceeding 60° over south-eastern Europe and at Moscow, 61° to 55° in the south and south-west of our Islands. Lowest, 39° at Bodö, 42° at Christiansund and Haparanda, 45° at Sumburgh Head, 48° at Cuxhaven, 51° at Brussels. Rising to between 60° and 65° in many parts of our Islands later, but not exceeding 60° over our south-eastern counties; touching 70° to 72° on the coasts of Brittany, 79° at Nice and Rome, 81° at Perpignan, Croisette, Cape Sicie, and Cagliari.

Wind (1) strong to a gale from North-West on the Norwegian coast; moderate from the North-Westward over the southern parts of Sweden, but Southerly over Finland and the Baltic provinces; (2) moderate and anticyclonic over the British Islands and France; (North-Westerly in the north; North-Easterly in the south). Very little change reported during the day.

Barometer highest, 30·3 ins. and more over the British Islands and their neighbourhood. Lowest, below 29·5 ins. in a depression over the northern parts of Finland and the Gulf of Bothnia; below 29·8 ins. over Russia generally, and in a shallow "V" extending thence across south-eastern Europe and the Adriatic to the northern parts of the Mediterranean. Northern depression moving eastwards later, but barometer falling over the Shetlands and Norway, rising slightly over England.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The depressions which towards the latter part of last week had begun to spread over the British Islands, causing a break in the long-continued spell of dry weather, disappeared entirely as the week closed, and the period now under notice has been marked by a renewal of the anticyclonic conditions previously in force over our Islands and their neighbourhood, together with the North-Westerly to North-Easterly anticyclonic winds, very dry air, cool nights, but moderately warm days.

Over northern, central, and southern Europe depressions have appeared from time to time, and in those regions showers have occurred occasionally, with frequent thunderstorms in the south-west and south of France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	63·3	+25·5	54	+ 21	SOUTHPORT	57·7	+ 5·8	51	+ 5
OSWALDKIRK (Yorkshire)	25·6	- 7·2	31	- 7	MANCHESTER (Oldham Road)	36·1*	?	32*	?
WORKSOP	33·6	- 6·4	30	- 5	COLWYN BAY	79·1	?	70	?
THURCASTON (Leicestershire)	33·9	- 7·9	30	- 8	TENBY				
MARGATE	37·3	- 7·7	34	- 7	NEWQUAY	65·0	+15·0	59	+ 13
WESTBOURNE (Sussex)	71·3*	+19·9	64*	+ 16	TORQUAY	73·9*	+21·7	67*	+ 20
BRIGHTON	68·7	+18·8	62	+ 17	ARLEY COTTAGE (County Cavan)	81·1	+37·6	71	+ 33
EASTBOURNE	54·8	+ 3·1	49	+ 2	GUERNSEY	69·5*	+ 9·9	64*	+ 8

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 23.] *Third Series.* WEEK ENDING SATURDAY, JUNE 6TH, 1896. [*Price* 6*d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 134.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	38	53·7	45·2	49·1	1 below	50	− 6	0	− 2	625	+169	305	−314
	1. SCOTLAND, EAST	75	37	59·0	45·5	51·8	0 (average)	69	− 1	0	− 1	778	+197	408	−241
	2. ENGLAND, N.E.	80	40	64·9	48·3	56·0	4 above	98	+24	0	− 1	745	+173	327	−222
	3. ENGLAND, EAST	84	33	71·8	48·1	59·1	5 above	120	+32	0	− 1	841	+108	388	−229
	4. MIDLAND COUNTIES	81	40	72·5	48·7	59·7	5 above	124	+34	0	− 1	943	+171	372	−247
	5. ENGLAND, SOUTH	85	40	69·2	50·7	59·4	4 above	122	+27	0	− 1	970	+153	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	71	37	61·6	47·3	54·0	1 above	84	+ 7	0	− 1	838	+207	234	−228
	7. ENGLAND, N.W.	73	42	66·1	50·8	57·9	4 above	111	+29	0	− 1	890	+234	201	−258
	8. ENGLAND, S.W.	80	40	65·7	49·4	57·9	3 above	105	+16	0	0	1038	+236	155	−206
	9. IRELAND, NORTH	74	38	63·9	48·8	55·8	3 above	97	+18	0	− 1	959	+247	162	−233
	10. IRELAND, SOUTH	73	40	66·0	48·7	56·8	2 above	104	+18	0	0	1140	+283	89	−210
	—CHANNEL ISLANDS	75	50	65·8	53·8	59·4	3 above	122	+28	0	0	1259	+332	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 134.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	11	4 more	111	+ 6	24·6	+ 3·5	16	−21	14	−17	471	− 32	25	− 1
	1. SCOTLAND, EAST	5	11	6 more	79	− 4	8·2	− 3·9	30	−12	25	−11	618	+ 44	32	+ 2
	2. ENGLAND, N.E.	4	8	3 more	66	−14	6·3	− 3·4	43	+ 1	37	+ 1	573	+ 3	30	0
	3 ENGLAND, EAST	3	4	1 less	74	− 3	7·2	− 2·3	69	+21	61	+18	651	− 2	34	0
	4. MIDLAND COUNTIES	3	8	2 more	66	− 9	6·6	− 4·1	57	+14	50	+12	618	+ 22	32	+ 1
	5. ENGLAND, SOUTH	3	4	1 less	63	−10	5·8	− 5·2	72	+23	64	+20	662	− 16	35	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	3 more	87	− 2	16·3	− 3·5	43	− 2	37	− 2	623	+ 29	32	+ 2
	7. ENGLAND, N.W.	4	7	1 more	77	− 4	11·3	− 1·2	45	0	39	0	586	+ 49	33	+ 2
	8. ENGLAND, S.W.	4	6	1 more	67	−15	8·5	− 6·7	54	+ 2	49	+ 3	749*	+ 29	39	+ 1
	9. IRELAND, NORTH	6	8	2 more	88	− 6	12·9	− 1·6	43	+ 1	37	0	577	+ 2	30	0
	10. IRELAND, SOUTH	4	7	1 more	75	−13	11·0	− 5·2	60	+15	52	+12	652	− 7	34	0
	—CHANNEL ISLANDS	4	10	5 more	74	−15	6·6	− 6·4	60	+ 2	54	+ 1	827	0	43	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued fine and dry generally during the earlier days of the period, but subsequently became very changeable in all districts, with steady rain and some thunder in Scotland, and heavy showers, with occasional thunderstorms in all other parts of the Kingdom.

Temperature was again above the mean in Ireland, England, and the west of Scotland, but only just equalled the normal in Scotland E., and was a little below it in Scotland N. The highest of the maxima, which were recorded on May 31st in Scotland, on June 2nd over England, and on irregular dates in Ireland, ranged from 85° in England S., 84° in England E., and 81° in the Midland counties, to 71° in Scotland W., and to 64° in Scotland N. The lowest of the minima occurred during the early part of the week, and varied from 33° in England E., 37° in Scotland E. and W., and 38° in Scotland N. and Ireland N., to 42° in England N.W., and to 50° in the Channel Islands.

Rainfall was a little less than the normal in England S. and E., but exceeded it in all other districts. The fall over England was rather irregularly distributed, but the largest amounts occurred, as a rule, over the northern counties.

Bright Sunshine was less than the normal in Scotland, but exceeded it in nearly all the English and Irish districts. The percentage of the possible duration ranged from 64 in England S., 61 in England E., and 54 in the Channel Islands, to 25 in Scotland E., and 14 in Scotland N.

Barometer and Wind.—At the commencement of the week the distribution of pressure continued anticyclonic, with Westerly winds in the north, and North-Easterly breezes in the south. By Tuesday morning, however, the anticyclone had dispersed, and a complex low pressure area had appeared over our south-western districts. This system subsequently spread over the whole Kingdom, the winds becoming South-Westerly in the south, and Easterly in the north. By the end of the period a new and rather deeper depression was approaching our south-western districts, and the wind over England was backing to the Southward and South-Eastward.

* This value has been altered owing to the receipt of further information for a preceding week

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II.—DATA from which the SUMMARY on page 133 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	38	50·3	42·1	45·9	− 1·6	27	0	5	0·36	−0·10	*	*	*	*
	Stornoway	58	43	53·1	45·4	49·0	− 0·7	49	0	5	1·12	+0·48	20·3	−22·0	17	−18
	Wick	61	44	54·1	45·6	49·6	− 0·2	53	0	7	1·43	+1·05	*	*	*	*
	Glencarron Ⓢ	58	40	52·7	43·7	47·9	− 3·5	41	0	7	1·64	+0·43	*	*	*	*
	Fort Augustus Ⓢ	62	45	54·8	46·7	50·5	− 1·0	60	0	6	1·05	+0·63	15·3	−14·2	13	−11
	Fort William Ⓢ	64	46	57·4	47·4	52·1	− 0·4	71	0	4	0·84	+0·01	13·1	−27·2	11	−22
1. SCOTLAND, E.	Nairn	65	43	55·3	44·9	49·7	− 2·9	54	0	6	1·24	+0·82	*	*	*	*
	Aberdeen	60	41	55·6	47·1	51·1	− 0·5	64	0	5	0·77	+0·31	27·4	−18·4	23	−15
	Braemar Ⓢ	69	37	58·0	42·8	49·9	+ 0·4	55	0	5	0·95	+0·46	27·8†	−15·0†	23†	−14†
	Ochtertyre Ⓢ	75	37	64·6	44·6	53·9	+ 1·4	83	0	6	1·71	+1·08	*	*	*	*
	Leith Ⓢ	68	45	59·0	47·4	52·8	− 0·8	76	0	6	1·23	+0·78	*	*	*	*
	Marchmont Ⓢ	73	41	61·4	45·9	53·1	+ 1·5	78	0	4	0·81	+0·21	34·5	− 8·4	29	− 7
2. ENGLAND, N.E.	Alnwick Castle	68	43	61·0	47·1	53·6	+ 2·8	81	0	2	0·50	0·00	*	*	*	*
	Durham	80	40	69·1	46·2	56·9	+ 4·6	104	0	4	1·11	+0·60	47·0	+ 6·8	40	+ 6
	Shields	71	43	60·0	47·6	53·4	+ 1·5	80	0	4	0·83	+0·46	*	*	*	*
	Scarborough Ⓜ	73	46	63·0	48·9	55·5	+ 3·6	95	0	4	0·62	+0·12	*	*	*	*
	York	79	42	73·1	48·4	59·9	+ 5·4	125	0	4	0·94	+0·43	33·9	− 9·1	29	− 8
	Spurn Head	68	47	63·0	51·6	56·9	+ 4·2	104	0	3	0·64	+0·23	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	81	36	74·7	48·3	60·6	+ 6·2	139	0	3	0·70	+0·18	66·1	+18·1	57	+15
	Yarmouth	70	42	63·1	51·3	56·8	+ 3·0	104	0	2	0·07	−0·40	*	*	*	*
	Geldeston	77	33	72·1	46·1	58·1	+ 3·9	113	0	2	0·08	−0·35	75·2	+24·1	67	+21
	Cambridge	84	37	76·1	48·3	61·2	+ 5·5	134	0	3	0·56	+0·04	68·6	+21·1	61	+20
	Rothamsted	81	37	72·8	46·6	58·8	+ 4·4	118	0	4	0·64	+0·15	64·4	+18·8	57	+16
4. MIDLAND COUNTIES	Harrogate Ⓜ	72	41	68·7	47·2	57·2	+ 3·7	103	0	3	2·11	?	48·8	+ 6·3	42	+ 5
	Bawtry (Hesley Hall)	80	?	76·1	?	?	?	?	0	2	0·90	+0·37	*	*	*	*
	Loughborough	81	43	77·1	50·4	62·8	+ 6·7	146	0	2	0·40	−0·13	*	*	*	*
	Stamford (Ketton Hall)	81	40	74·9	47·9	60·5	+ 5·6	130	0	3	0·94	+0·42	*	*	*	*
	Cheadle Ⓜ	75	45	70·6	50·1	59·6	+ 6·3	123	0	2	0·92	+0·28	*	*	*	*
	Shirley (near Solihull)	75	42	72·3	48·5	59·6	+ 5·0	123	0	5	0·30	?	*	*	*	*
	Churchstoke Ⓜ	75	41	70·6	47·3	58·1	+ 4·7	113	0	3	0·46	−0·12	52·6	+ 8·4	46	+ 7
	Hereford Ⓜ	78	44	73·9	49·2	60·7	+ 5·3	131	0	4	0·35	−0·19	*	*	*	*
	Cirencester	74	41	71·0	47·1	58·2	+ 4·7	113	0	5	0·74	+0·20	61·1	+15·1	54	+13
	Oxford	78	44	73·1	50·3	30·9	+ 5·5	132	0	2	0·63	+0·12	66·8	+21·2	59	+18
5. ENGLAND, S.	London	85	40	77·1	49·9	62·6	+ 5·9	144	0	2	0·16	−0·32	61·2†	+19·0†	54†	+16†
	North Foreland	78	48	66·9	52·7	59·3	+ 4·6	121	0	3	0·20	?	*	*	*	*
	Dungeness	70	43	64·4	52·4	58·1	+ 3·4	113	0	2	0·13	−0·27	*	*	*	*
	Hastings (St. Leonards)	74	44	68·2	50·5	58·7	+ 3·4	117	0	4	0·43	−0·02	75·9	+20·9	68	+19
	Southampton	77	43	71·5	50·0	60·0	+ 3·5	126	0	2	0·81	+0·33	72·1	+22·0	64	+18
	Hurst Castle	71	44	66·7	52·1	58·9	+ 3·2	118	0	3	0·51	+0·05	*	*	*	*
	Stowell Ⓜ	73	42	69·8	47·6	57·9	+ 4·5	111	0	4	0·70	+0·16	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	42	58·7	49·1	53·6	+ 1·1	81	0	6	0·70	−0·20	*	*	*	*
	Glasgow	65	44	59·3	47·2	52·8	− 0·5	76	0	6	2·02	+1·33	27·0	−11·4	23	− 9
	Ardrossan	62	46	60·4	48·0	53·8	+ 0·4	83	0	4	0·92	+0·33	*	*	*	*
	Glenlee Ⓢ	71	37	66·2	43·3	54·0	+ 2·0	84	0	5	1·34	+0·52	*	*	*	*
	Douglas (Isle of Man)	65	40	63·6	48·8	55·7	+ 3·0	96	0	4	0·32	−0·26	58·8	+ 7·1	51	+ 6
7. ENGLAND, N.W.	Stonyhurst	70	45	66·8	50·3	57·9	+ 4·3	111	0	3	0·96	+0·16	39·5	− 5·6	34	− 5
	Blackpool Ⓜ	69	45	66·1	50·1	57·5	+ 3·8	109	0	2	0·31	−0·22	46·8	+ 1·6	40	+ 1
	Manchester (Prestwich)	73	42	69·8	49·6	59·0	+ 5·4	119	0	3	0·67	−0·03	37·4	?	32	?
	Liverpool Obsy. (Bidston)	71	49	65·7	52·4	58·6	+ 4·4	116	0	4	0·43	−0·08	*	*	*	*
	Llandudno Ⓜ	69	45	64·5	51·5	57·6	+ 2·9	109	0	5	0·98	+0·50	*	*	*	*
	Holyhead	68	48	63·4	50·9	56·7	+ 2·1	103	0	5	0·63	+0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	80	40	73·7	48·1	58·9	+ 4·4	118	0	4	0·79	+0·09	*	*	*	*
	Pembroke	65	48	62·4	51·9	56·8	+ 3·1	104	0	3	0·31	−0·19	54·5	+ 1·7	48	+ 2
	Arlington (N. Devon)	72	44	67·4	48·0	57·0	+ 3·8	105	0	4	0·64	−0·11	*	*	*	*
	Cullompton Ⓜ	74	40	69·3	46·5	57·1	+ 2·5	106	0	4	0·75	+0·30	52·4	+ 5·4	47	+ 5
	Falmouth	67	48	63·6	51·6	57·2	+ 2·3	106	0	6	0·51	−0·01	53·7	+ 0·2	48	0
	Plymouth	67	44	62·7	51·1	56·5	− 0·2	102	0	4	0·65	+0·17	59·0	+10·0	53	+ 9
	Prawle Point	64	48	60·9	50·9	55·6	+ 1·4	95	0	4	0·78	+0·34	*	*	*	*
9. IRELAND N.	Malin Head	60	42	57·9	48·7	53·0	+ 0·3	77	0	6	1·35	?	*	*	*	*
	Londonderry	74	48	69·1	50·5	59·2	+ 4·6	120	0	6	1·01	+0·39	*	*	*	*
	Edenfel (Omagh)	69	42	66·6	47·1	56·2	+ 5·8	99	0	6	0·83	+0·21	*	*	*	*
	Belmullet	63	48	63·7	50·4	56·6	+ 2·7	102	0	6	0·90	+0·31	*	*	*	*
	Markree Castle	68	38	65·0	48·0	55·9	+ 2·7	97	0	6	0·65	−0·07	49·5	+ 8·0	43	+ 7
	Armagh	67	39	65·4	48·3	56·3	+ 3·2	100	0	4	0·44	−0·04	41·8	− 0·1	36	0
	Donaghadee	62	41	59·7	48·4	53·7	0·0	82	0	5	0·51	−0·03	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	69	44	65·3	50·8	57·6	+ 2·3	109	0	3	0·16	−0·34	57·4	+10·3	50	+ 9
	Parsonstown	71	40	68·3	47·4	57·0	+ 2·9	105	0	4	0·42	−0·18	47·2	+ 6·4	41	+ 6
	Kilkenny	73	41	66·3	46·6	55·8	+ 1·5	97	0	4	0·81	+0·30	*	*	*	*
	Roche's Point	66	50	64·0	52·6	57·9	+ 2·3	111	0	4	0·95	+0·22	*	*	*	*
	Valencia	66	43	64·3	49·4	56·3	+ 1·3	100	0	4	0·96	+0·30	72·9	+24·9	65	+22
	Killarney	72	40	66·4	45·6	55·3	+ 0·6	93	0	4	0·75	?	*	*	*	*
	Foynes	69	45	67·4	48·8	57·5	+ 3·3	109	0	4	0·66	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	52	62·9	53·9	58·1	+ 2·7	113	0	4	0·76	+0·31	58·4	?	53	?
	Jersey	75	50	68·6	53·6	60·6	+ 3·8	130	0	4	1·19	+0·72	56·3	− 1·5	51	− 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

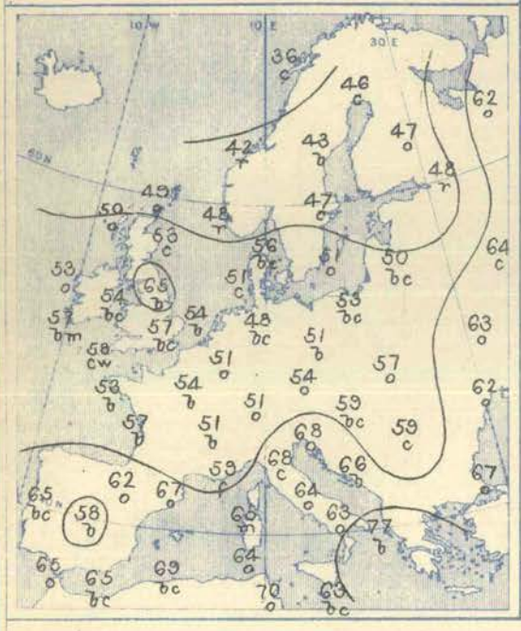
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College Westminster. For additional Reports of Sunshine see last page.

Sunday, 31st May.

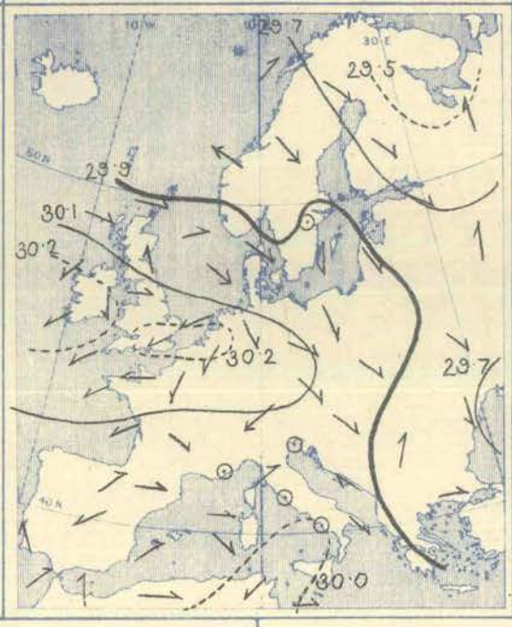
Temperature and Weather.

8 a.m.

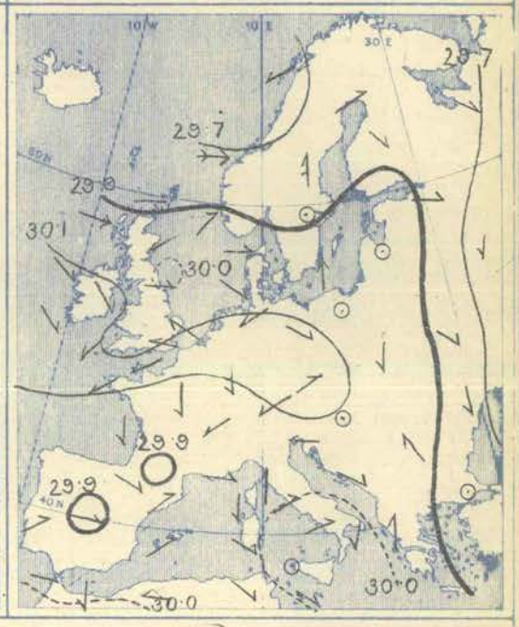


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or overcast at almost all the northern stations, with rain in many places; dull over central and south-eastern Europe also, and over the northern parts of the Iberian Peninsula; fine and bright elsewhere. Some rain later over the Hebrides, Shetlands, and various parts of northern Europe. Very heavy local falls at Turin, Gap, and Kiev. Fine, bright weather prevalent over western Europe as a whole.

Temperature changing fitfully. Morning readings highest, 70° at Sfax, 69° at Algiers and Palma, 67° at Constantinople, and above 60° over southern, central, and northern Russia, 60° at Prawle Point and Pembroke. Lowest, 36° at Bodö, 42° at Christiansund, 48° at Skudesnaes, 49° at Sumburgh Head and at Helsingfors. Rising later to between 70° and 79° over England, to between 75° and 85° over many parts of France, but not touching so high a point over Italy and Algeria.

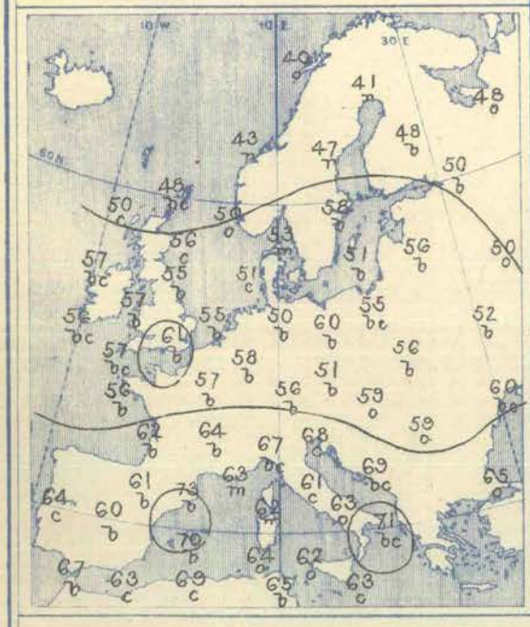
Wind mainly Westerly over the northern parts of Europe, but varying a great deal in certain localities, such as Christiansund, Karlstad, and Aberdeen; North-Westerly over central Europe; North-Easterly over France and the Bay of Biscay; extremely variable over the Iberian Peninsula and the Mediterranean. Local cyclonic circulations of little strength occurring over the British Islands later; no great change elsewhere.

Barometer highest, 30·2 ins. and more to 30·0 ins. in a complex anticyclone spreading in from the Atlantic over the British Islands, the north of France, the North Sea, and central Europe. Lowest, 29·6 ins. and less over the White Sea and the Kola Peninsula, and below 29·7 ins. over the south-east of Russia. Changing irregularly later, but with a tendency to the formation of a new anticyclone over central Europe, while that over the Atlantic showed signs of giving way.

Monday, 1st June.

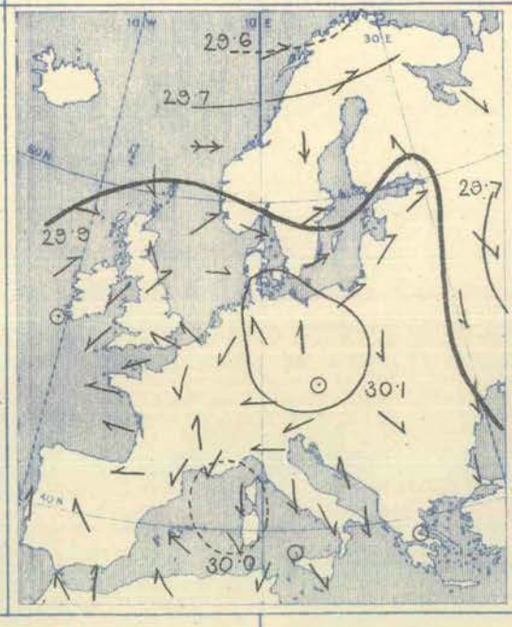
Temperature and Weather.

8 a.m.

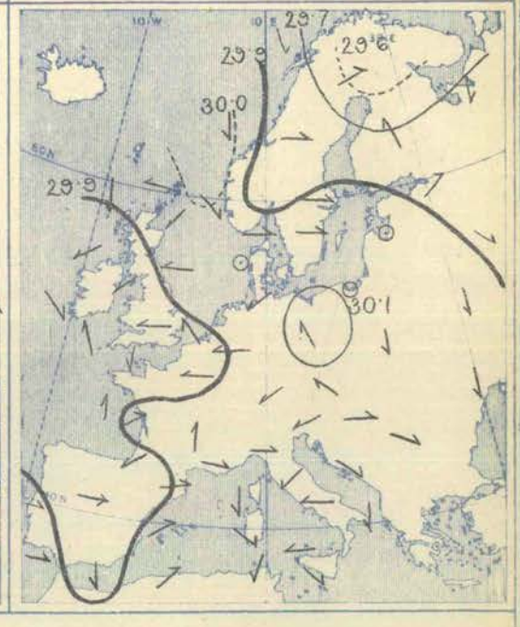


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over eastern, central, southern, and western Europe; cloudy or overcast in the north, with rain at several stations. Rain falling later in the north and west of Scandinavia, the greater part of Scotland, the north and west of Ireland, and the south-west of England—thunderstorms in the south-west and south of France.

Temperature changing irregularly, but inclined to rise over the British Isles, and fall in the south of Russia. Morning readings highest, 70° to 73° at Athens, Brindisi, Barcelona, Palma, and Bilbao, 60° or more at several stations in the south of England and at Berlin. Lowest, 40° at Bodö, 43° at Christiansund, 46° at Hangö, and 48° at Archangel, Kuopio, and Sumburgh Head. Rising later to between 75° and 81° in several parts of England, to 81° at Berlin, and to 82° at Paris and Lyons, and to 84° at several of the Algerian stations.

Wind fresh to a gale from between North-West and South-West over Scandinavia; moderate from South or South-East over Finland; extremely light and variable elsewhere, but chiefly Westerly at our most northern stations; Easterly in the south, and Northerly over Russia. Becoming still more variable over our Islands later, and finally cyclonic in direction, but light in force.

Barometer highest, 30·1 ins. and more to 30·0 ins. over central Europe, and in a "col" stretching thence across England to the Irish Sea. Lowest, 29·6 ins. and less over Finmark; 29·7 ins. and less over eastern Russia; below 30·0 ins. over the Atlantic and extreme western parts of Europe, as well as over the northern parts of the Mediterranean. Falling over the British Islands, and shallow depression forming over England and Ireland.

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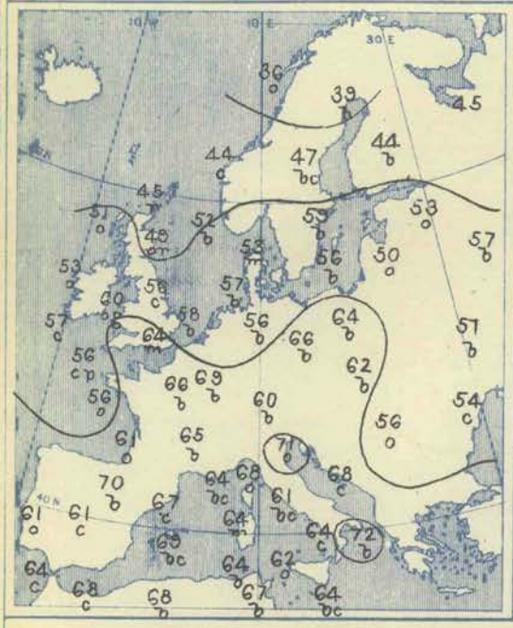
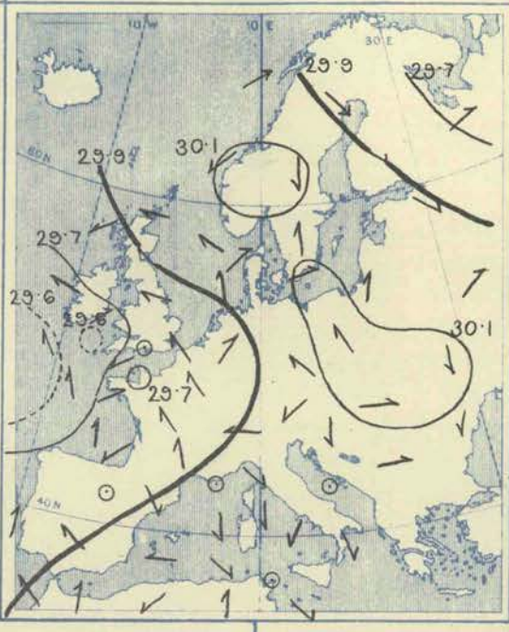
Tuesday, 2nd June.

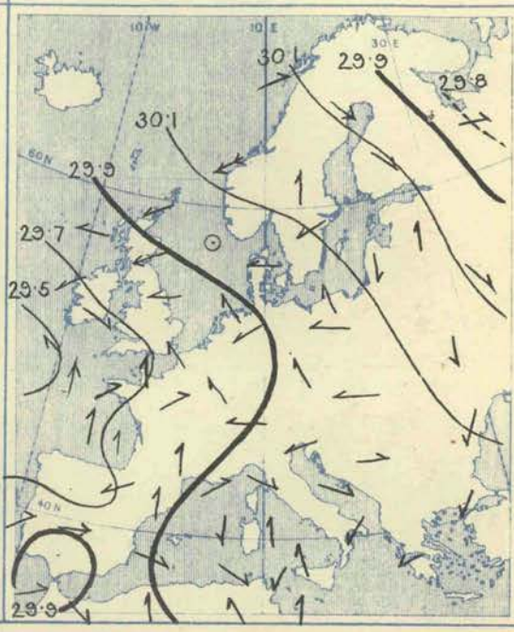
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull or cloudy, with some slight showers on the Atlantic coasts of Ireland and Scotland, and also over the Bay of Biscay, but fine and bright over Europe as a whole. Slight rain falling later in local thunderstorms over several parts of England, Ireland, and also over the southern provinces of France and in Paris.

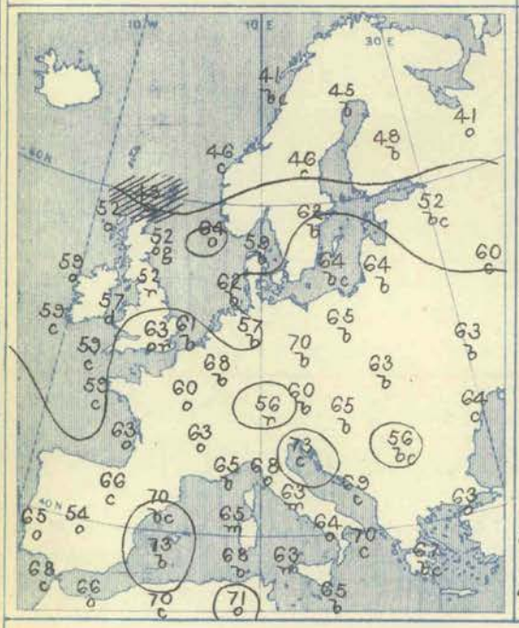
Temperature fallen a little in Scotland, and also over Finland and the north of Russia, but risen in most other places. Morning readings highest, 72° at Brindisi, 71° at Trieste, 70° at Biarritz, 69° over the north-east of France, 60° or more at several of the English stations and over southern Europe generally. Lowest, 36° at Bodö, 39° at Haparanda, 44° at Uleaborg and Kuopio, and 45° at Sumburgh Head. Rising later to between 80° and 85° over the central districts of England and France, to 82° at Florence, 84° at Brussels, and reaching 86° to 90° at the Algerian stations.

Wind North-Westerly or Northerly over northern Europe, light to strong in force; South-Easterly in Ireland and Scotland, but very light and variable over Europe generally. Over Algeria, however, moderate Southerly breezes prevailed. Little change over our Islands later, but wind becoming more Easterly in Scotland and freshening somewhat.

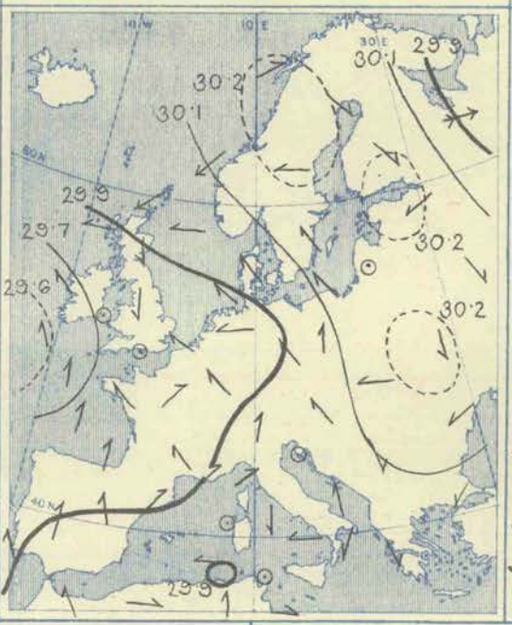
Barometer highest, 30·1 ins. and more in a large anticyclone covering the greater part of western Russia, Austria, and Scandinavia. Lowest, 29·6 ins. and less over the extreme south-west of Ireland, and 29·7 ins. in a shallow depression over the Kola Peninsula. Small secondary depressions reported near Pembroke and over the English Channel. Barometer rising later over the northern parts of our Islands, and small thunderstorm depressions forming over England.

Wednesday, 3rd June.

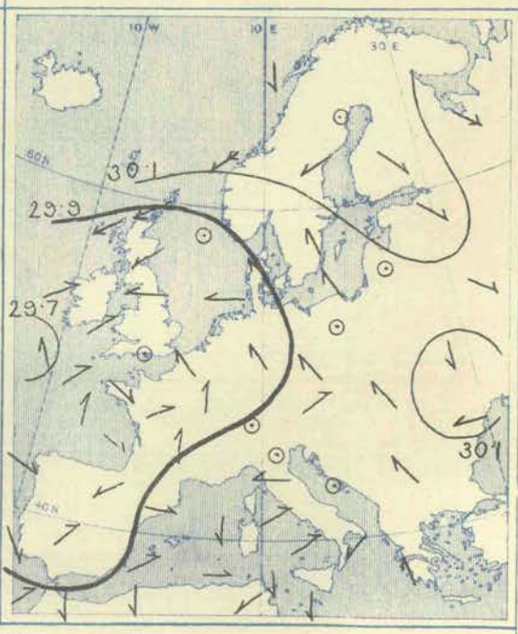
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the United Kingdom as a whole, with slight rain locally, fine and dry in most other places. Showers falling later over the greater part of England and Scotland, with local thunderstorms—the amounts of rainfall varying greatly in different districts of London; as much as 0·70 in. measured at Camden Town, but only 0·01 in. at Brixton. Thunderstorms also reported later, with heavy rain at several of the French stations.

Temperature changed very irregularly over our Islands, but risen somewhat over Europe generally. Morning readings highest, (1) 73° at Trieste and Palma, 71° at La Calle, 70° at Brindisi and Barcelona; (2) 68° at Brussels and Dungeness, and 65° at Cambridge and the North Foreland. Lowest, 41° at Archangel and Bodö, 45° at Haparanda, 46° at Christiansund and Hernösand, and 48° at Sumburgh Head. Rising later to 86° at Berlin, 81° at Munich, 70° to 77° over the inland districts of England, to 82° over the northern parts of Italy and at Brussels, to 86° at Tunis, and exceeding 90° at several of the Algerian stations.

Wind North-Easterly and Easterly over Scandinavia; Easterly in Scotland; Southerly and South-Easterly in Ireland, but very light and variable over England and the Continent generally. A fresh gale from the Westward reported from Archangel. Little change later.

Barometer highest, 30·1 ins. to 30·2 ins. and upwards in a large anticyclone covering the greater part of western Russia and the northern portion of Scandinavia. Lowest, 29·6 ins. and less off our extreme south-west coasts, and 29·9 ins. in a depression near the White Sea, falling a little on the west coast of Norway and in Denmark, but rising slowly over Europe generally. Very little change later, but barometer continuing to fall over Norway.

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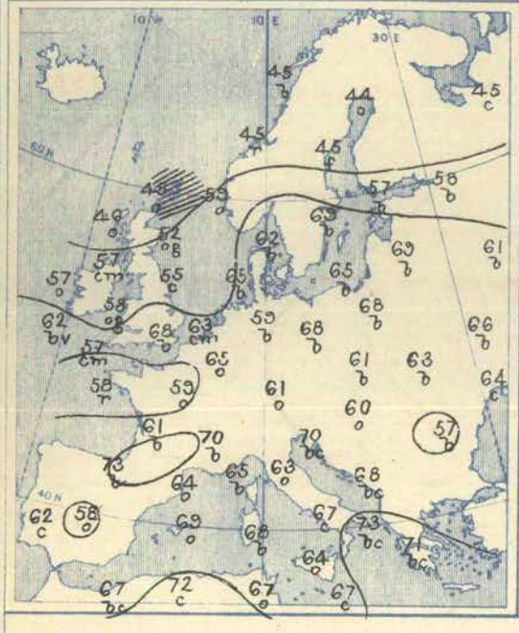
Thursday, 4th June.

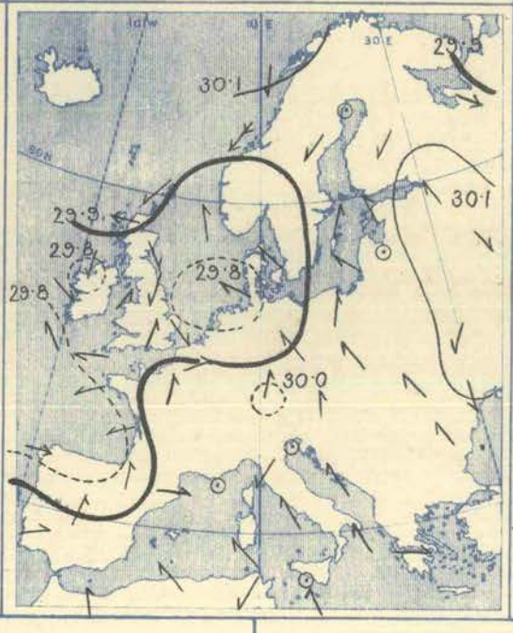
Temperature and Weather.

8 a.m.

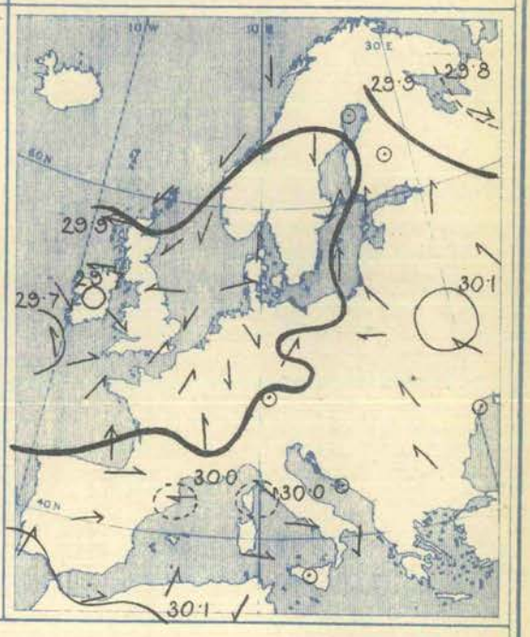


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in Scotland and Norway, with some rain locally; rain and thunder reported from the north-east of France, but fine and bright over our Islands and the Continent generally. Thunderstorms, with heavy local rains over our Islands and the south of France later.

Temperature fallen over Scotland and Norway, but risen in most other places. Morning readings highest, (1) 73° at Brindisi and Biarritz, 72° at Algiers and Barcelona, 71° at Patras and La Calle; (2) 69° at Stockholm and Riga, 68° at Berlin and in London, and 67° at Cambridge. Rising during day to 84° at Nice and Wiesbaden, to 81° in London, and to 79° at Cambridge, 78° at Oxford, and 77° at Loughborough; reaching 79° at several of the Italian stations, 80° over France, and exceeding 90° in Algeria.

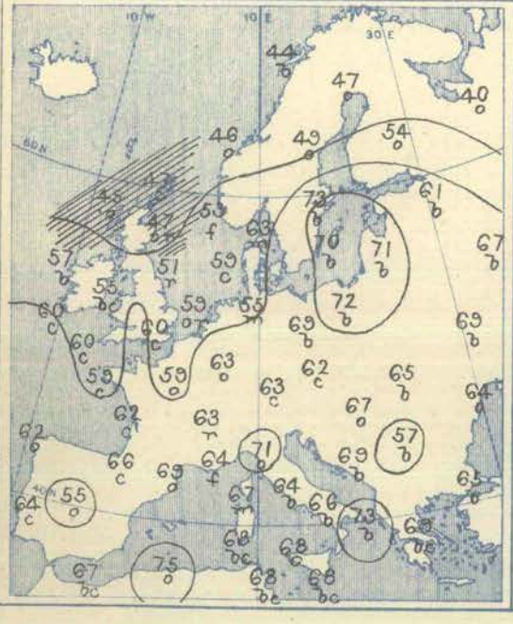
Wind North-Easterly and Easterly fresh over Scandinavia and the north of Scotland; light and very variable at the English stations. Over the Continent generally light breezes from South or South-East reported, but at Archangel a moderate gale from the Westward still prevailed. Little change later.

Barometer highest, 30·1 ins. in an anticyclone lying over central Russia, and also in the southern part of a high pressure system off the north-west of Norway. Lowest, 29·8 ins. in two shallow depressions lying respectively off our south-west coasts, and over the southern part of the North Sea, and 29·9 ins. and less over the White Sea. Falling later in most places, but rising in the south-west of France.

Friday, 5th June.

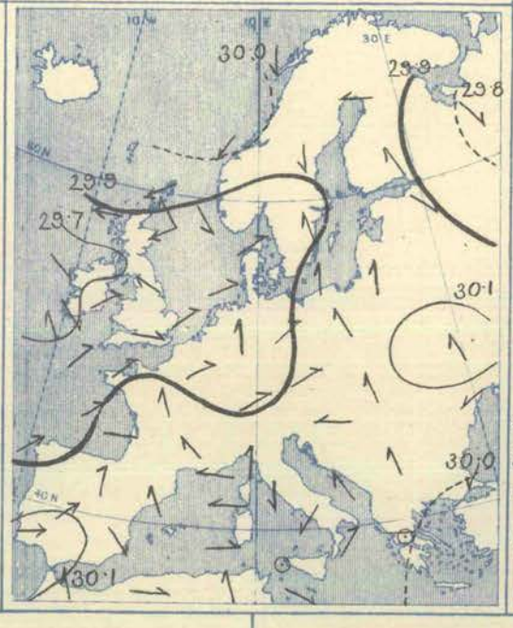
Temperature and Weather.

8 a.m.

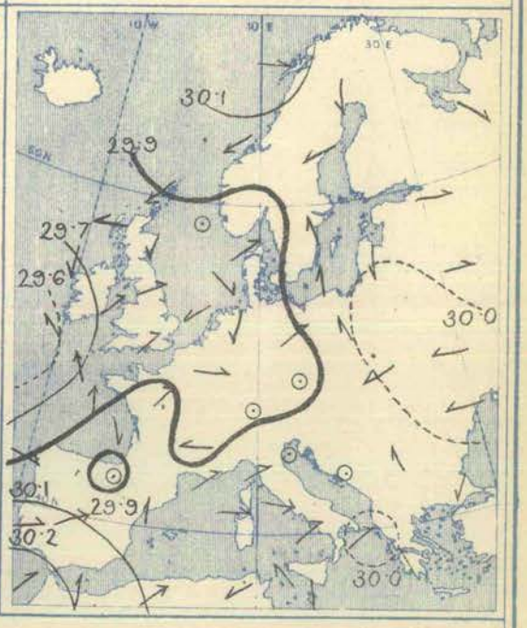


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very changeable over the United Kingdom, with rain in several parts of Ireland and Scotland, but fine and bright on the Continent generally. Thunderstorms, with heavy local rains again occurring later over many parts of England and Ireland, and also over the southern provinces of France.

Temperature fallen several degrees over our Islands and in many parts of France and Algeria, but risen a little over Russia and Germany. Morning readings highest, (1) 75° at Algiers, 73° at Brindisi, 71° at Livourne, 69° at Athens and Kharkov; (2) 73° at Stockholm and Neufahrwasser, 70° at Wisby, and 69° at Berlin. Rising later to between 70° and 74° at the central English stations, to 86° at Berlin, and to 79° at Perpignan. At the Mediterranean stations maxima ranging between 79° and 84° were reported, while in some parts of Algeria temperature rose to 90°.

Wind Easterly fresh to strong over Scotland, and light from the same direction at the Scandinavian stations. Varying Southerly breezes reported over the greater part of our Islands and France, and also at most of the Russian and German stations, but light and variable airs prevailing over the southern parts of Europe and the Mediterranean. Southerly winds freshening somewhat on the south-western coasts of England later, but little change elsewhere.

Barometer highest, 30·1 ins. and more in an anticyclone over southern Russia, and also in another high pressure system lying over the south-western part of the Iberian Peninsula. Lowest, 29·6 ins. and less in a shallow depression off the south-west coast of Ireland. Barometer beginning to fall somewhat decidedly later in Ireland, and the low pressure spreading gradually over all the western and south-western parts of our Islands.

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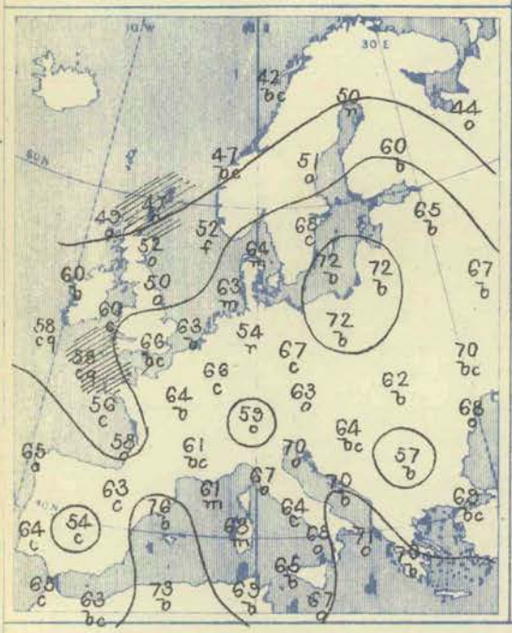
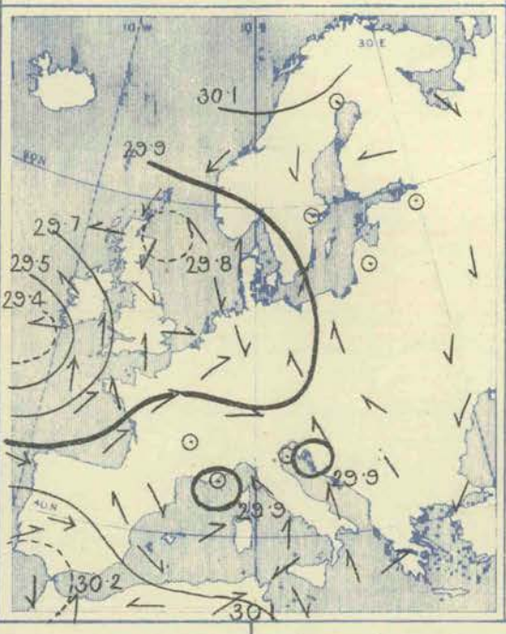
Saturday, 6th June.

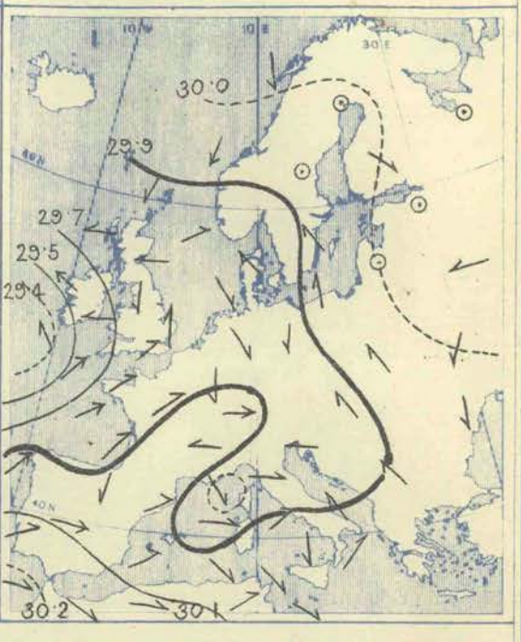
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over our northern districts, with rainy appearance in places, as well as over Italy and the Adriatic; rainy at Buda Pesth; fine generally elsewhere, but showery looking in the south of England; squally at Scilly; rainy at Roche's Point. Considerable rain later in the west of France, and the south-west and west of our Islands, and smaller quantities in almost all other regions; thunderstorms over the greater part of England and at Lyons.

Temperature changing fitfully, but as a whole tending to fall over the western countries, and to rise over north Germany and the south of Sweden. Morning readings highest, (1) 76° at Barcelona and Palma, 73° at Algiers, 71° at Brindisi, 70° at Trieste, Lesina, and Athens, and also at Bilbao, 66° in London and at Brussels; (2) 76° at Memel, 72° at Riga and Stockholm, 67° at Moscow, 65° at St. Petersburg. Rising later to between 70° and 73° in several parts of England, to 75° at Brussels and Paris, and 79° at Nice and Perpignan.

Wind (1) Westerly and South-Westerly strong to moderate over the Iberian Peninsula; Southerly to South-Easterly over England; South-Easterly to Easterly over Ireland; North-Easterly over Scotland and at Christiansund; (2) North-Westerly moderate over the western parts of the Mediterranean; South-Easterly over central Europe and the Baltic; (3) very variable elsewhere and light. No great change later.

Barometer highest, 30·2 ins. to 30·0 ins. over the Spanish Peninsula and the northern parts of Africa, and exceeding 30·0 ins. all over Russia. Lowest, below 29·4 ins. at Valencia, and below 29·7 ins. all over Ireland and the south-western parts of Wales and England; shallow local depressions near Nice, Trieste, Copenhagen, Uleaborg, and Sumburgh Head. Falling over Ireland and France later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The anticyclonic system which had been stretching over our Islands from the Atlantic for so long a time gave way slowly during Sunday and Monday, and its place has been taken by a low pressure system, which, in connection with two high pressure areas—one over northern, the other over south-western Europe—has brought about rainy weather over the greater part of the United Kingdom and neighbouring parts of north-western Europe, and thunderstorms in many places. These showery conditions appear to be increasing in intensity, and spreading more and more in all directions, so that the drought of the past month or two appears to be at an end.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	28·7	− 0·2	24	− 8	SOUTHPORT	47·4	− 5·0	41	− 4
OSWALDKIRK (Yorkshire)	47·4	+ 4·9	41	+ 3	MANCHESTER (Oldham Road)	43·3*	?	38*	?
WORKSOP	52·6	+13·1	46	+ 12	COLWYN BAY	53·0	?	46	?
THURCASTON (Leicestershire)	60·7	+19·2	53	+ 16	TENBY	54·4*	+ 1·9	48*	+ 2
MARGATE	62·1	+17·3	55	+ 15	NEWQUAY	50·5	− 3·3	45	− 3
WESTBOURNE (Sussex)	75·9*	+24·9	68*	+ 21	TORQUAY	56·2*	+ 2·4	51*	+ 3
BRIGHTON	79·2	+28·4	71	+ 26	ARLEY COTTAGE (County Cavan)	36·9	− 6·9	32	− 6
EASTBOURNE	75·6	+24·0	68	+ 22	GUERNSEY	64·6*	+ 4·5	59*	+ 4

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 24.] *Third Series.* WEEK ENDING SATURDAY, JUNE 13TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 140.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	77	44	60·4	48·3	53·9	2 above	83	+20	0	− 2	7 8	+189	305	−316
	1. SCOTLAND, EAST	79	44	62·0	49·6	55·4	2 above	94	+17	0	0	872	+214	408	−241
	2. ENGLAND, N.E.	81	47	63·9	51·4	57·2	3 above	1·6	+24	0	0	851	+197	327	−222
	3. ENGLAND, EAST	82	49	65·5	52·8	6)·6	5 above	130	+35	0	0	9·1	+143	388	−229
	4. MIDLAND COUNTIES	80	46	70·2	51·5	60·2	4 above	127	+31	0	0	1070	+202	372	−247
	5. ENGLAND, SOUTH	83	48	67·8	54·6	60·8	4 above	132	+30	0	0	1102	+183	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	76	40	66·4	49·6	57·4	3 above	108	+25	0	0	946	+232	234	−228
	7. ENGLAND, N.W.	79	47	67·8	52·2	59·6	4 above	123	+33	0	0	1013	+267	201	−258
	8. ENGLAND, S.W.	80	45	66 7	5·.5	59·2	3 above	120	+24	0	0	1158	+260	155	−206
	9. IRELAND, NORTH	80	42	66·9	50·0	57·8	4 above	111	+26	0	0	1070	+273	162	−233
	10. IRELAND, SOUTH	77	42	67·1	51·4	58·7	3 above	117	+25	0	0	12s7	+308	89	−210
	—CHANNEL ISLANDS	80	53	65·1	55·2	59·8	3 above	125	+19	0	0·	1384	+351	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 140.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	3	4 less	113	+ 4	24·9	+ 3·1	36	− 2	30	− 1	507	− 34	25	− 2
	1. SCOTLAND, EAST	4	8	3 more	83	− 3	9·0	− 3·6	17	−25	14	−21	635	+ 19	31	+ 1
	2. ENGLAND, N.E.	3	4	1 less	69	−13	3·7	− 3·5	25	−16	22	−13	598	− 13	29	− 1
	3 ENGLAND, EAST	3	12	7 more	77	− 3	8·4	− 1·6	51	+ 4	45	+ 3	702	+ 1	35	0
	4. MIDLAND COUNTIES	3	8	2 more	69	− 9	7·4	− 3·8	31	−12	27	−10	649	+ 10	32	+ 1
	5. ENGLAND, SOUTH	3	12	8 more	66	− 9	7·0	− 4·5	48	− 1	42	− 1	710	− 17	35	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	4 less	89	− 3	16·6	− 3·9	41	− 4	35	− 3	664	+ 25	32	+ 1
	7. ENGLAND, N.W.	3	3	2 less	80	− 4	11·6	− 1·5	41	− 4	35	− 3	627	+ 43	34	+ 3
	8. ENGLAND, S.W.	3	6	0 (average)	70	−14	9·1	− 6·6	49	− 3	44	− 2	798	+ 26	39	+ 1
	9. IRELAND, NORTH	2	2	4 less	90	− 8	13·1	− 2·0	45	+ 3	38	+ 2	622	+ 5	31	+ 1
	10. IRELAND, SOUTH	2	3	3 less	77	−14	11·3	− 5·5	48	+ 3	41	+ 2	700	− 5	34	− 1
	—CHANNEL ISLANDS	4	5	1 more	78	−13	7·1	− 6·3	57	− 4	51	− 3	884	− 4	43	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was again fine and dry throughout the period at some of the Irish stations, but over England the earlier half of the week was cloudy and changeable, with heavy falls of rain and occasional thunder and lightning in most localities. Considerable falls of rain occurred also in some parts of Scotland.

Temperature varied greatly, but was upon the whole in excess of the mean—in England E. the excess was as much as 5°. The highest of the maxima were registered on the 13th, when they varied from 83° in England S., and 82° in England E., to 77° in Scotland N. and Ireland S., and to 76° in Scotland W. The lowest of the minima were recorded during the earlier part of the week, and ranged from 40° in Scotland W., and 42° in Ireland, to 49° in England E., and to 53° in the Channel Islands.

Rainfall varied greatly in different districts. It was less than the mean in Ireland, the north and west of Scotland, and over the north of England, and just equal to the normal in England S.W. Elsewhere there was an excess, that over the south and east of England being very large.

Bright Sunshine was more than the mean in England E. and over Ireland, but less in all other districts. The percentage of the possible duration ranged from 51 in the Channel Islands, and 45 in England E., to 27 in the Midland counties, 22 in England N.E., and 14 in Scotland E.

Barometer and Wind.—During the earlier half of the week some shallow depressions advanced to the south and south-east of England from the south-westward, causing Easterly breezes (South East to North-East) in nearly all parts of the Kingdom, and heavy rains over our southern and south-eastern counties. As the week progressed these systems dispersed, the barometer rose very generally, the winds became light and variable, and the weather fine.

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II.—DATA from which the SUMMARY on page 139 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℳ	55	44	51·6	45·3	48·2	- 0·5	43	0	2	0·57	+0·11	*	*	*	*
	Stornoway	66	45	61·9	49·3	55·2	+ 4·2	92	0	2	0·10	-0·55	41·7	- 1·1	34	- 1
	Wick	64	45	56·4	47·1	51·4	+ 0·2	66	0	2	0·04	-0·35	*	*	*	*
	Glencarron ℳ	73	45	63·3	48·1	55·2	+ 2·7	92	0	2	0·60	-0·60	*	*	*	*
	Fort Augustus ℳ	77	45	62·5	49·4	55·5	+ 2·5	95	0	3	0·18	-0·29	19·2	-11·6	16	- 9
	Fort William ℳ	73	48	66·5	50·4	57·9	+ 4·2	111	0	2	0·07	-0·81	48·1	+ 6·6	39	+ 5
1. SCOTLAND, E.	Nairn	77	46	63·3	48·0	55·1	+ 1·4	92	0	5	0·42	+0·01	*	*	*	*
	Aberdeen	67	47	57·6	49·6	53·3	+ 0·4	79	0	5	0·83	+0·39	11·2	-34·8	9	-29
	Braemar ℳ	73	44	61·7	49·2	55·0	+ 4·0	91	0	3	1·30	+0·78	27·6†	-15·2†	23†	-12†
	Ochtertyre ℳ	79	48	67·4	51·6	59·0	+ 5·2	119	0	3	0·84	+0·21	*	*	*	*
	Leith	63	48	58·6	49·6	53·8	- 0·9	83	0	4	0·76	+0·31	*	*	*	*
	Marchmont ℳ	74	48	63·3	49·7	56·0	+ 3·0	98	0	3	0·64	+0·06	23·3	-19·5	19	-17
2. ENGLAND, N.E.	Alnwick Castle	64	48	59·7	49·7	54·4	+ 1·9	87	0	3	0·37	-0·11	*	*	*	*
	Durham	81	48	68·3	50·5	58·8	+ 5·0	118	0	3	0·32	-0·17	24·4	-15·6	21	-13
	Shields	68	48	59·0	50·4	54·4	+ 1·1	87	0	4	0·23	-0·17	*	*	*	*
	Scarborough ℳ	77	49	62·5	52·1	56·9	+ 2·4	104	0	3	0·34	-0·15	*	*	*	*
	York	81	47	70·3	51·3	60·1	+ 4·2	127	0	3	0·73	+0·21	26·0	-16·0	22	-13
	Spurn Head	68	53	63·3	54·3	58·5	+ 4·1	116	0	3	0·22	-0·18	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	81	50	72·1	52·4	61·6	+ 5·7	137	0	4	0·94	+0·42	54·1	+ 7·1	47	+ 6
	Yarmouth	66	52	63·3	54·3	58·5	+ 3·3	116	0	3	1·37	+0·92	*	*	*	*
	Geldeston	77	49	70·6	51·5	60·4	+ 4·8	129	0	2	1·36	+0·94	69·0	+18·8	61	+17
	Cambridge	82	51	72·1	53·3	62·1	+ 4·9	141	0	4	1·49	+0·96	47·6	+ 1·4	42	+ 2
	Rothamsted	76	50	69·2	52·4	60·2	+ 4·3	127	0	4	0·88	+0·39	31·6	-13·7	28	-12
4. MIDLAND COUNTIES	Harrogate ℳ	77	47	66·6	50·5	58·0	+ 3·2	112	0	2	1·29	?	23·7	-18·3	20	-16
	Bawtry (Hesley Hall)	80	?	72·0	?	?	?	?	0	2	0·09	-0·43	*	*	*	*
	Loughborough	80	50	72·9	52·6	62·0	+ 4·6	140	0	3	0·42	-0·10	*	*	*	*
	Stamford (Ketton Hall)	79	50	72·9	51·7	61·6	+ 5·2	137	0	3	0·63	+0·14	*	*	*	*
	Cheadle ℳ	75	49	68·4	51·8	59·5	+ 5·1	123	0	3	0·25	-0·41	*	*	*	*
	Shirley (near Solihull)	77	47	70·4	50·8	59·9	+ 3·2	125	0	4	1·45	?	*	*	*	*
	Churchstoke ℳ	75	46	68·7	49·6	58·5	+ 4·0	116	0	3	0·42	-0·13	37·0	- 7·2	32	- 7
	Hereford ℳ	80	49	72·5	51·7	61·4	+ 4·5	136	0	3	1·03	+0·53	*	*	*	*
	Cirencester	73	46	68·7	51·6	59·6	+ 4·7	123	0	4	0·59	+0·06	35·4	-10·2	31	- 9
	Oxford	79	51	70·7	53·0	31·2	+ 4·6	134	0	4	1·31	+0·81	32·9	-12·4	29	-11
5. ENGLAND, S.	London	83	52	72·3	54·3	62·7	+ 4·6	145	0	3	1·12	+0·64	40·4†	- 1·8†	35†	- 2†
	North Foreland	67	52	63·4	54·7	58·8	+ 2·9	118	0	3	2·25	?	*	*	*	*
	Dungeness	70	53	65·6	54·6	59·7	+ 3·5	124	0	4	1·86	+1·48	*	*	*	*
	Hastings (St. Leonards)	78	53	68·0	56·7	62·0	+ 5·6	140	0	3	1·85	+1·45	55·2	+ 1·1	49	+ 2
	Southampton	78	51	70·2	54·8	62·0	+ 4·5	140	0	4	0·44	-0·02	31·1	-18·7	28	-17
	Hurst Castle	72	53	67·6	55·7	61·2	+ 4·0	134	0	4	0·47	+0·02	*	*	*	*
	Stowell ℳ	75	48	67·4	51·5	58·9	+ 3·0	118	0	3	0·60	+0·06	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	72	49	66·2	51·0	58·1	+ 4·4	113	0	2	0·09	-0·87	*	*	*	*
	Glasgow	75	48	64·7	51·4	57·6	+ 3·2	109	0	2	0·70	+0·04	23·0	-15·8	19	-13
	Ardrossan	71	49	65·0	51·6	57·8	+ 3·2	111	0	2	0·10	-0·48	*	*	*	*
	Glenlee ℳ	76	40	68·7	46·8	57·0	+ 3·1	105	0	2	0·39	-0·39	*	*	*	*
	Douglas (Isle of Man)	72	43	67·5	47·0	56·5	+ 2·3	102	0	1	0·41	-0·12	59·4	+ 7·7	51	+ 7
7. ENGLAND, N.W.	Stonyhurst	76	50	68·4	52·1	59·7	+ 5·0	124	0	3	0·33	-0·46	34·6	-10·5	30	- 9
	Blackpool ℳ	77	47	71·1	50·8	60·2	+ 5·2	127	0	1	0·21	-0·30	47·8	+ 2·6	41	+ 3
	Manchester (Prestwich)	79	47	70·1	51·1	59·9	+ 4·6	125	0	3	0·29	-0·41	32·9	?	28	?
	Liverpool Obsy. (Bidston)	78	51	68·4	53·3	60·3	+ 4·6	128	0	3	0·24	-0·25	*	*	*	*
	Llandudno ℳ	71	50	65·8	52·8	58·9	+ 2·8	118	0	3	0·34	-0·11	*	*	*	*
	Holyhead	72	51	65·4	52·9	58·7	+ 3·0	117	0	1	0·60	+0·12	*	*	*	*
8. ENGLAND, S.W.	Llandovery	80	45	71·3	48·9	59·3	+ 3·6	121	0	3	1·10	+0·42	*	*	*	*
	Pembroke	72	51	63·4	53·6	58·2	+ 3·3	113	0	0	—	-0·48	44·6	- 9·5	39	- 8
	Clifton	78	53	69·8	54·6	61·7	+ 5·6	138	0	3	0·38	-0·16	*	*	*	*
	Arlington (N. Devon)	75	50	66·1	51·6	58·4	+ 4·0	115	0	3	0·96	+0·24	*	*	*	*
	Cullompton ℳ	73	46	68·6	51·2	59·3	+ 3·1	121	0	3	0·97	+0·47	34·4	-12·6	30	-11
	Falmouth	69	51	64·9	53·6	58·9	+ 2·7	118	0	3	0·11	-0·44	55·3	+ 1·5	49	+ 1
	Plymouth	75	49	65·7	54·1	59·5	+ 1·5	123	0	2	0·36	-0·11	50·5	+ 1·5	45	+ 1
	Prawle Point	69	50	63·9	52·6	57·9	+ 2·7	111	0	3	0·65	+0·24	*	*	*	*
9. IRELAND N.	Malin Head	72	49	62·4	51·9	56·8	+ 3·1	104	0	2	0·09	?	*	*	*	*
	Londonderry	80	47	73·6	50·9	61·5	+ 5·6	137	0	4	0·15	-0·45	*	*	*	*
	Edenfel (Omagh)	76	44	69·6	47·0	57·5	+ 5·1	109	0	2	0·14	-0·46	*	*	*	*
	Belmullet	65	48	63·6	51·3	57·0	+ 1·9	105	0	4	0·35	-0·15	*	*	*	*
	Markree Castle	74	42	66·1	48·4	56·6	+ 2·4	102	0	2	0·26	-0·45	46·5	+ 5·6	40	+ 5
	Armagh	74	44	68·2	48·6	57·7	+ 3·3	110	0	2	0·51	+0·01	44·5	+ 2·5	38	+ 3
	Donaghadee	69	43	64·9	51·7	57·8	+ 3·1	111	0	1	0·01	-0·49	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	72	50	68·9	53·4	60·6	+ 4·0	130	0	1	0·08	-0·40	51·3	+ 4·7	44	+ 4
	Parsonstown	77	46	68·7	50·3	58·9	+ 3·6	118	0	1	0·12	-0·44	40·0	- 0·7	34	- 1
	Kilkenny	74	45	68·6	49·0	58·1	+ 2·5	113	0	2	0·52	+0·01	*	*	*	*
	Roche's Point	70	50	66·3	54·0	59·7	+ 3·0	124	0	0	—	-0·73	*	*	*	*
	Valencia	68	44	63·7	51·6	57·2	+ 1·1	106	0	5	0·63	-0·08	51·7	+ 3·8	45	+ 3
	Killarney	75	42	66·5	49·9	57·6	+ 2·0	109	0	3	0·21	?	*	*	*	*
	Foynes	75	46	66·9	51·8	58·8	+ 3·4	118	0	2	0·24	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	63·4	55·7	59·3	+ 2·8	121	0	3	0·08	-0·34	60·8	?	54	?
	Jersey	80	53	66·7	54·7	60·3	+ 2·4	128	0	4	0·95	+0·49	48·7	- 9·0	44	- 8

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ☭ with the Scottish Meteorological Society.

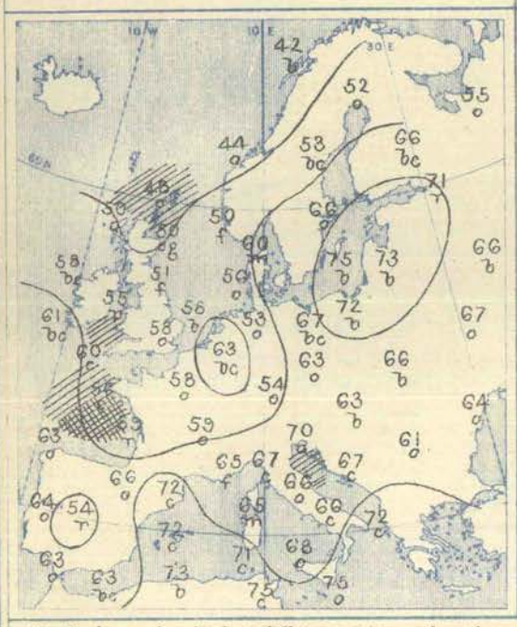
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 7th June.

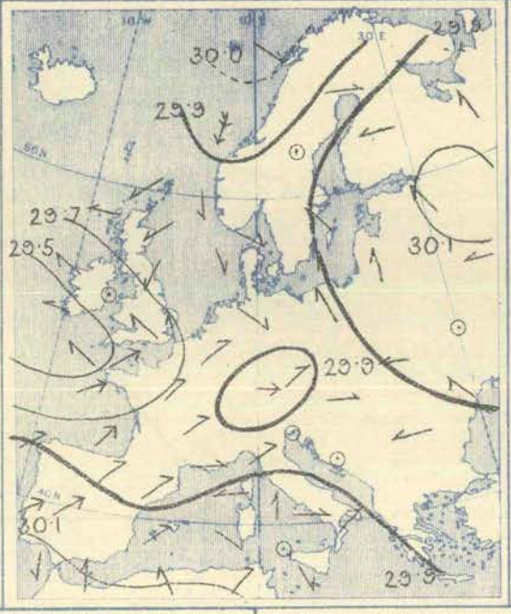
Temperature and Weather.

8 a.m.

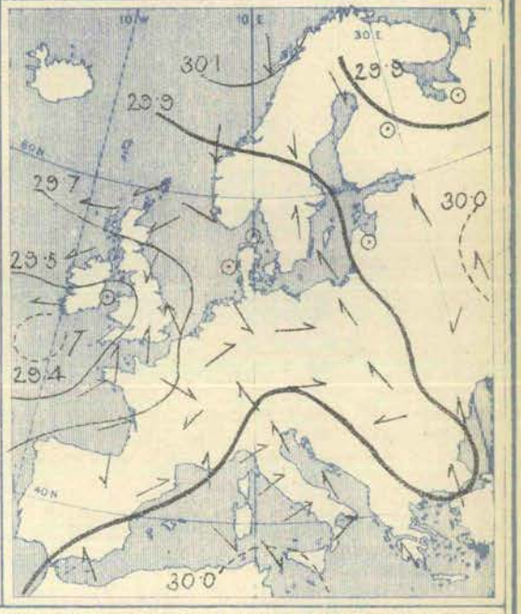


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western and southern Europe generally, with rain in many parts of our Islands, as well as at Le Mans, Madrid, and Vienna. Fine in most of the northern and eastern countries, but dull in some parts of northern Russia, with rain at St. Petersburg. Rain falling later in all the more western countries; thunderstorms occurring at many of the English stations, and also at the Helder, Paris, and Algiers.

Temperature fallen in most of the western and southern countries, but changed irregularly elsewhere. Morning readings highest, (1) 75° at Malta and Sfax, and 73° at Algiers; (2) 75° at Wisby, 73° at Riga, and 72° at Memel and Neufahrwasser; above 60° on our own extreme south-west coasts. Lowest, 42° at Bodö, 44° at Christiansund, 48° at Sumburgh Head, and 50° at Skudesnaes, Stornoway, Wick, Aberdeen, and Leith. Rising during day to between 60° and 65° at most of the English and Irish stations, but remaining below 55° on many parts of the Scotch coasts. Exceeding 75° over Spain and the southern parts of France and Italy; reaching 82° at Brindisi, and 90° at Cagliari.

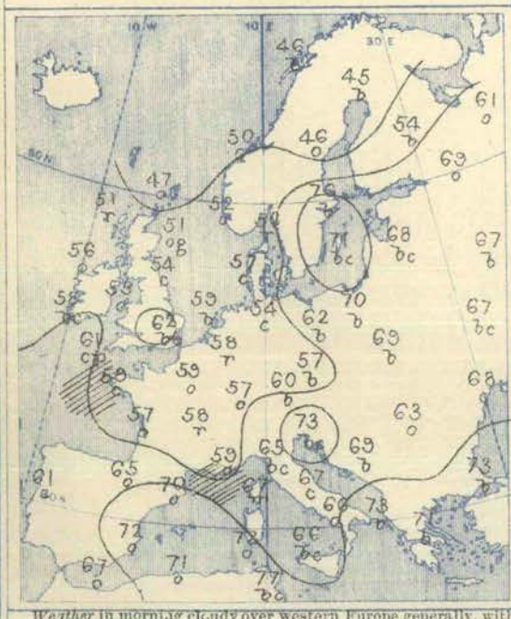
Wind moderate to strong from the South-Westward over the Spanish Peninsula and the west of France; moderate from the South-Eastward in the south of England; light to fresh from the Eastward over Ireland and the northern parts of Great Britain. Northerly in the west of Norway, with a gale at Christiansund, but Southerly or South-Easterly over the Baltic and the south of Sweden. Light and variable in Germany, Russia, and Austria; South-Westerly or Westerly in Italy. Subsequently veering to the Southward in the south of England; shifting to the North-Eastward on many parts of our northern coasts.

Barometer highest, 30·1 ins. and upwards over Algeria and the extreme south of Spain, and also over central Russia; 30·0 ins. and upwards in the north-west of Norway. Lowest, 29·4 ins. and less in a well-marked depression lying off the south-west of Ireland; 29·75 ins. and less (apparently) in a shallow system over Denmark. Irish depression subsequently spreading north-eastwards, and barometer falling in most parts of western Europe.

Monday, 8th June.

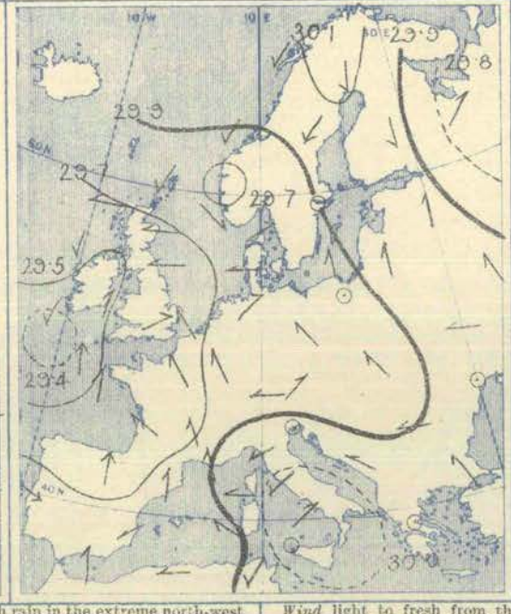
Temperature and Weather.

8 a.m.

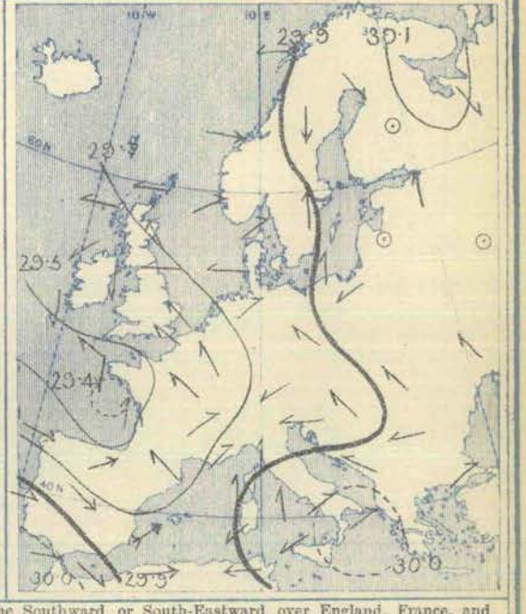


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over western Europe generally, with rain in the extreme north-west of our Islands, and passing showers on our south-west coasts; rain falling also at Skagen, Brussels, Lyons, and Bilbao. Fine and bright in most of the eastern and central countries, and also in Italy. Showers falling later in many parts of the United Kingdom, and heavy rain in the Channel Islands, as well as in many parts of France and northern Italy; thunderstorms or thunder only occurring at several of the English and French stations, and also at Karlstad, Vienna, and Algiers.

Temperature risen a little over Great Britain and the north of France, but fallen in most other localities. Morning readings highest, (1) 77° at Sfax, and 73° at Trieste, Brindisi, and Constantinople; (2) 76° at Stockholm, and 71° at Wisby. Lowest, 45° at Haparanda, 46° at Bodö and Hernösand, 47° at Sumburgh Head, and 49° at Wick. Daily maxima below 55° in the north of Scotland, and below 60° on our northern coasts generally, but thermometer exceeding 70° over central England, and also over the greater part of France; exceeding 75° in many parts of southern Europe, and reaching 86° at Brindisi.

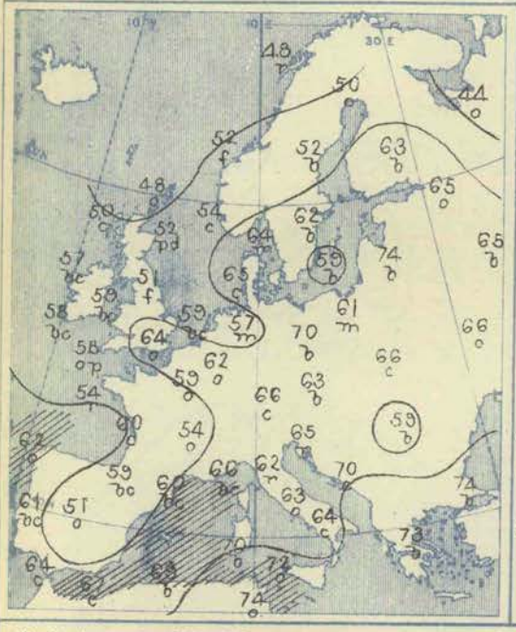
Wind light to fresh from the Southward or South-Eastward over England, France, and the Netherlands, but Easterly in Scotland, and North-Easterly in Ireland. Variable over central and southern Europe as a whole; North-Easterly over the northern parts of Scandinavia; Southerly or South Easterly at most of the Russian stations. Subsequently backing to the Eastward over England, and to the South-Eastward in Ireland; veering to the South-Westward over the southern parts of France.

Barometer highest, 30·1 ins. and upwards over the north of Scandinavia; 30·0 ins. and upwards over Italy and the neighbouring parts of the Mediterranean. Lowest, 29·4 ins. and less (apparently) in a shallow depression lying off the south of Ireland; 29·7 ins. and less in another system over the south of Norway; 29·8 ins. and less in a third over northern Russia. Irish and Norwegian depressions subsequently filling up, but new disturbance forming over the Bay of Biscay, and advancing slowly towards the English Channel.

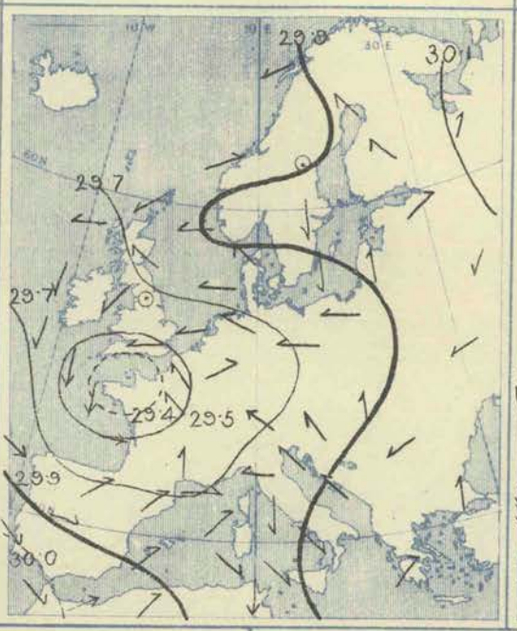
Wyman & Sons, Ltd., 55, Fetter Lane.

Tuesday, 9th June.

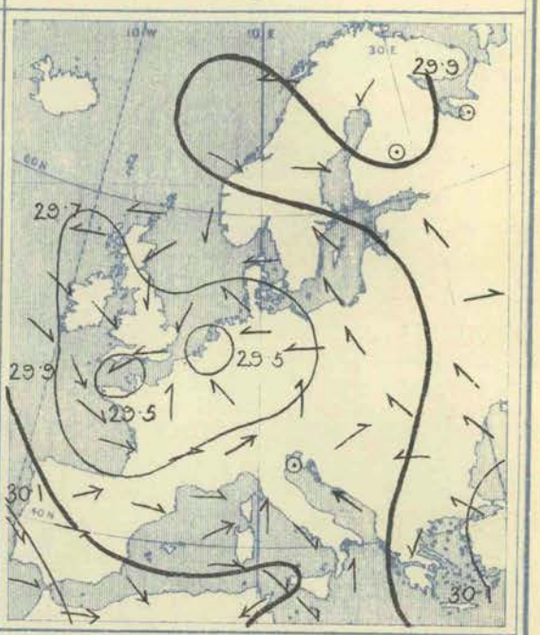
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and showery in the south of England and also in the east of Scotland; rainy at several of the French stations, as well as over northern Italy. Fair or fine in most other parts of Europe, but foggy on several parts of our own northern coasts, and rainy at Bodö. Heavy rain falling later in the extreme south-east of England, as well as at some of the French, German, and Austrian stations. Thunderstorms occurring in many parts of England, and thunder heard at Nairn and Belfort.

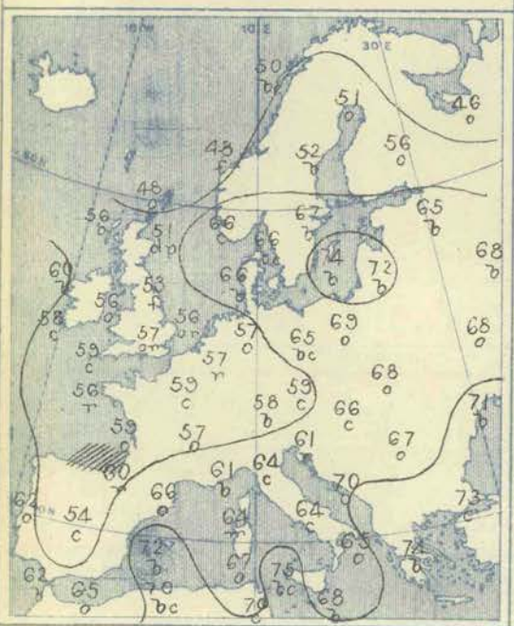
Temperature risen in many parts of northern and central Europe, but fallen in most other localities. Morning readings highest (1) 74° at Constantinople and Sfax, and 73° at Brindisi and Athens; (2) 74° at Memel, 73° at Riga, and 70° at Berlin; above 65° over the central countries generally. Lowest, 44° at Archangel, 45° at Bodö and Sumburgh Head, and 50° at Haparanda and Stornoway. Rising during day to 70°, or a little more, at many of the English, Irish, and French stations, and reaching 86° at Berlin; remaining below 55° on many parts of the Scotch coasts; exceeding 75° over Austria and southern Italy.

Wind Northerly on our extreme west and south-west coasts, and fresh in force at the mouth of the Channel. Moderate to strong from the North-Westward over the Bay of Biscay and Spanish Peninsula; Easterly (South-Easterly to North-Easterly) over Germany, Denmark, the south of Scandinavia, and the northern and eastern parts of our Islands. Light and variable over Russia, Greece, and Italy; South-Westerly in Algeria. No important change occurring over western Europe during day.

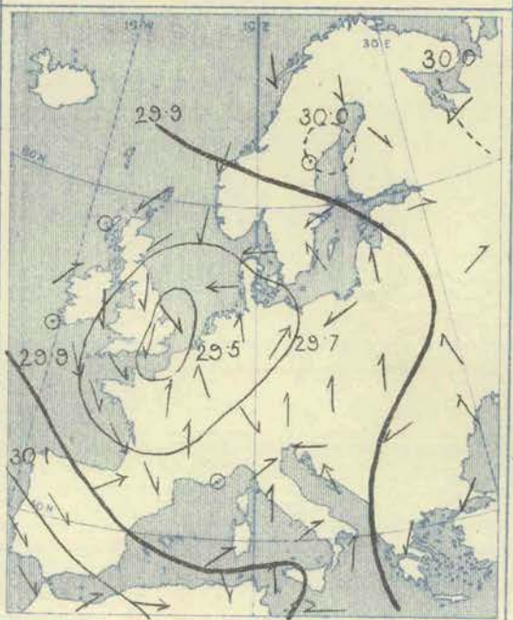
Barometer highest 30·1 ins. and upwards over northern Russia; 30·0 ins. and upwards over Morocco and the extreme south of the Spanish Peninsula. Lowest 29·4 ins. and less in a well-marked depression lying over the English Channel and north of France. Depression subsequently moving very slowly north-eastwards. New disturbance forming over the Netherlands in evening.

Wednesday, 10th June.

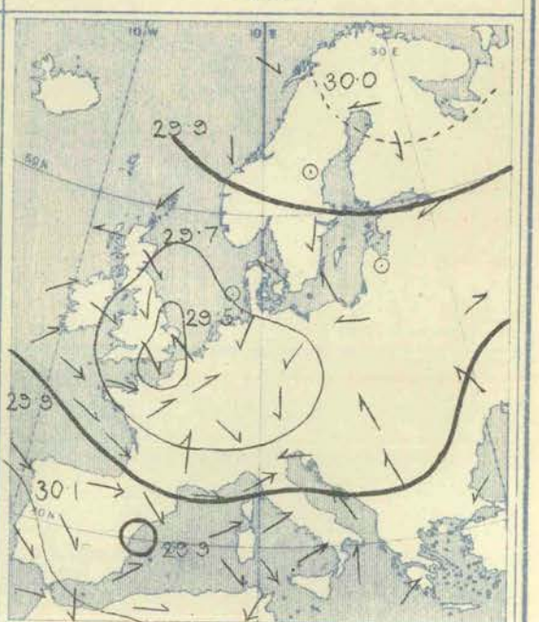
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western Europe generally, with fog on our north-east coasts, and with steady rain in the east and south-east of England, as well as in many parts of France and Belgium. Fine at some of our own western stations, as well as in most of the eastern, central, and southern European countries; dull over northern Russia. Large quantities of rain measured during day in the east and south-east of England, and also in France and at Hermanstadt; heavy rain setting in at night in the east of Scotland, with thunder at Aberdeen.

Temperature changed irregularly. Morning readings highest (1) 75° at Palermo, 74° at Athens, and 73° at Constantinople; (2) 74° at Wisby, 72° at Riga, and 71° at Memel; above 65° over the eastern parts of the Continent generally. Lowest, 46° at Archangel, 48° at Christiansund and Sumburgh Head, and 50° at Bodö and Wick. Daily maxima below 60° over the northern parts of Great Britain, and very little above it in the south-east of England, but thermometer reaching 70° or more in some parts of our midland counties. Exceeding 70° over central and southern Europe generally, and reaching 84° at Berlin and Brindisi.

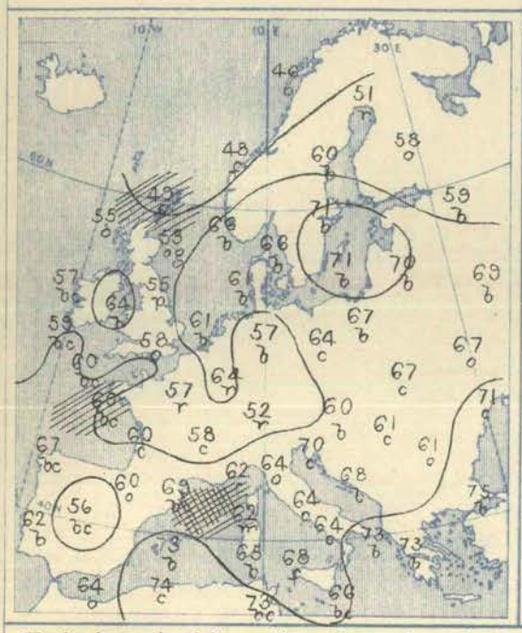
Wind light to fresh from the Northward or North-Westward over England, the east of Ireland, the west of France, and the Spanish Peninsula; Southerly over Italy, central France, the Netherlands, and Germany; South-Easterly over the Baltic; Easterly or North-Easterly over Denmark, the south of Scandinavia, and the greater part of Scotland. Northerly in the north of Scandinavia, variable over northern Russia; calm or variable in Austria. No important change occurring over Western Europe during day, but light South-Westerly breezes setting in over the west of Ireland.

Barometer highest 30·1 ins. and upwards over the south-western parts of the Spanish Peninsula; 30·0 ins. and upwards over the Black Sea and the south of Russia. Lowest, 29·5 ins. and less in a depression over the east and south-east of England, and also in a small system near the mouth of the Elbe; 29·8 ins. and less in a shallow disturbance over the northern part of the Adriatic. No important change occurring over western Europe during day, but depression over south-eastern England passing south-eastwards at night.

Wyman & Sons, Ltd Lith 63, Carter Lane

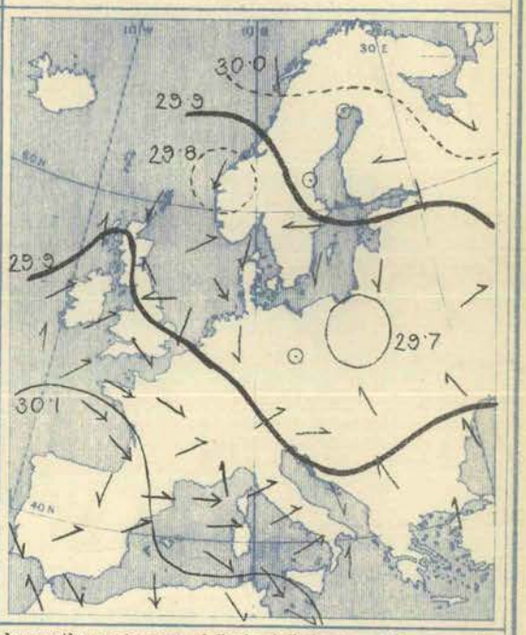
Thursday, 11th June.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.

Barometer and Wind. 6 p.m.



Weather in morning dull over the northern and central parts of Great Britain, with rain in several places; dull also in France, Germany, and Italy, with rain at Paris, Belfort, and Florence. Fine in most other parts of Europe, but dull in the extreme northern parts of Russia and Scandinavia, with rain at Haparanda. Improvement taking place later over the north of our Islands, but thunder and heavy rain experienced at Sumburgh Head. Considerable quantities of rain falling also over Germany, Belgium, and the east of France.

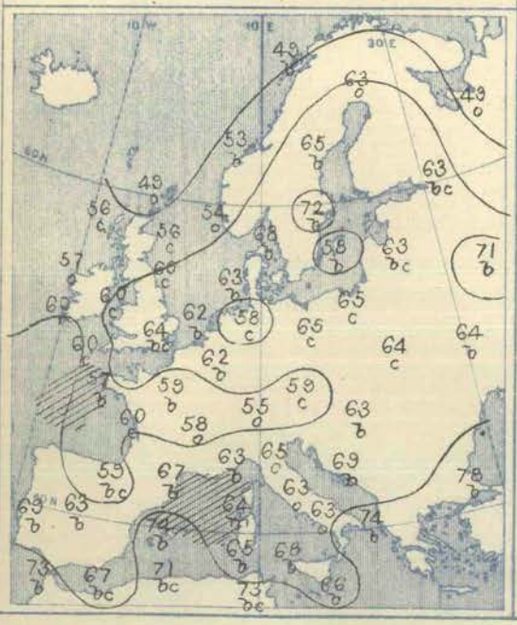
Temperature fallen in the eastern and central countries, but risen elsewhere. Morning readings highest, (1) 75° at Constantinople, and 73° at Brindisi, Athens, and Sfax; (2) 71° at Stockholm, Wisby, and Memel; above 60° on our north-west coasts. Lowest, (1) 46° at Bodö, 48° at Christiansund, and 49° at Sumburgh Head; (2) 52° at Belfort. Rising during day to between 71° and 74° over the central and south-eastern parts of England, and also in Belgium and Germany; exceeding 75° in many parts of southern Europe, and reaching 84° at Palermo and San Fernando.

Wind Westerly or North-Westerly over the greater part of England, Ireland, and France, and fresh or strong in force over the Bay of Biscay and the western parts of the Channel. Calm or variable over Scotland and the northern parts of Scandinavia and Russia; Easterly or North-Easterly over Denmark, north Germany, and the south of Scandinavia. Light from the South-Eastward in the south of Russia; South-Westerly in Italy; North-Easterly over the greater part of Spain. Subsequently backing to the South-Westward on our west and south coasts generally, and to the Southward in the west of Ireland; no important change occurring elsewhere.

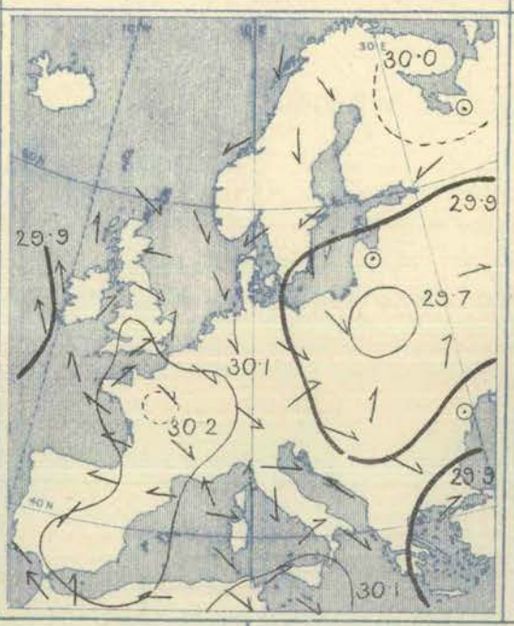
Barometer highest, 30·1 ins. and upwards over Algeria and the Spanish Peninsula; 30·0 ins. and upwards over the southern and northern parts of Russia. Lowest, 29·7 ins. and less in a well-marked depression over Belgium and the north-east of France, and also in two small shallow systems lying over the northern parts of Germany. High pressure system over Spain spreading northwards later, and barometer rising in all parts of western Europe; depression over Belgium filling up.

Friday, 12th June.

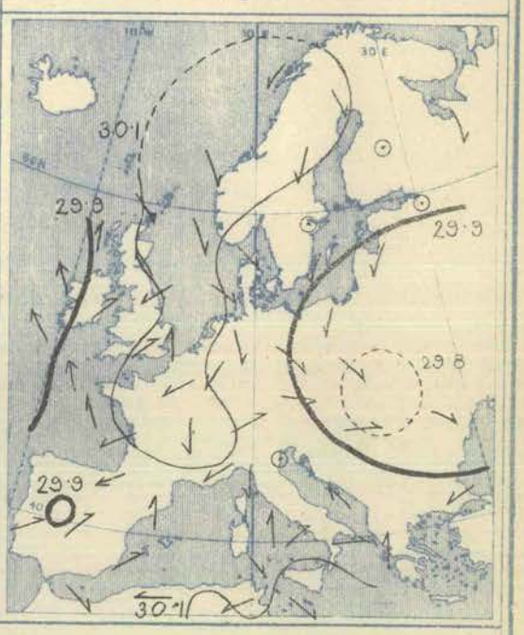
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over Great Britain and the Continent generally, but dull at several of the Italian stations. Rainy in many parts of Ireland. No important change occurring over western or northern Europe during day, but a thunderstorm occurring at Karlstad. Heavy rain falling in some parts of Austria and south Germany.

Temperature risen over Great Britain, Denmark, and Scandinavia, but changed rather irregularly elsewhere. Morning readings highest, (1) 78° at Constantinople, 74° at Brindisi and Bilbao, and 73° at San Fernando and Sfax; (2) 72° at Stockholm and Memel, and 71° at Karlstad and Moscow; above 60° over the greater part of England. Lowest, (1) 49° at Archangel, Bodö, Sumburgh Head, and Wick, and 53° at Christiansund; (2) 51° at Le Mans, 54° at Belfort, and 55° at Munich. Rising during day to between 75° and 80° over the inland parts of England, but remaining below 60° at some of our extreme northern stations. Exceeding 80° in many parts of southern Europe, and reaching 89° at Madrid.

Wind Southerly or South-Easterly on our western coasts; fresh in force in the west of Ireland. Light from between West and South in the east and south-east of England; light to moderate from the Northward in Scandinavia and Denmark, and from the North-Westward in Germany, Austria, and the Netherlands. Variable in Italy; Easterly over Spain and the Bay of Biscay. Light from the South-Westward in the south of Russia, but from the North-Eastward in the north of that country. No important change occurring during day.

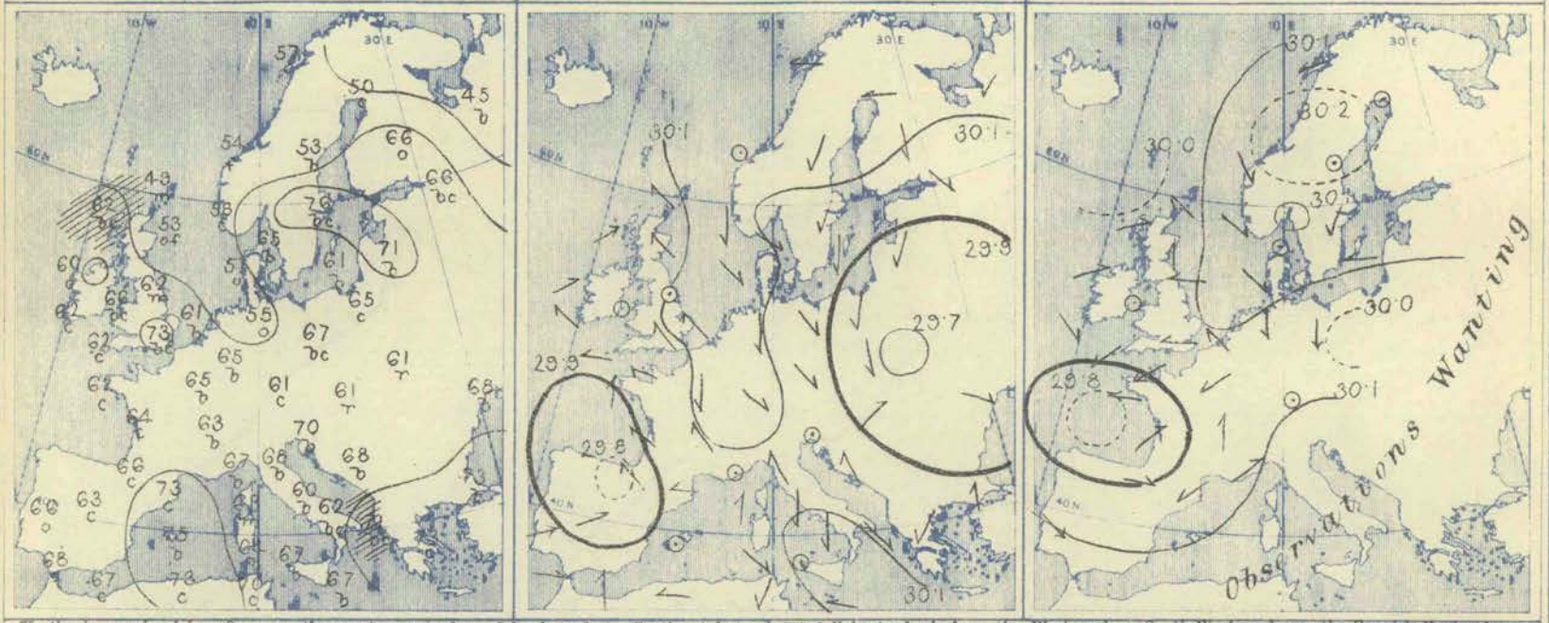
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Spain, France, and the south of England; 30·0 ins. and upwards over western and southern Europe generally. Lowest, 29·7 ins. and less in a shallow depression over western Russia; 29·9 ins. and less in another system lying to the westward of Ireland. Latter disturbance subsequently spreading slowly eastwards; new depression beginning to form over central Spain.

Wyman & Sons, Ltd. Lith 63, Carter Lane.

Saturday, 13th June.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but foggy on some parts of our own north-east coasts, as well as at Münster and Christiansund. Dull in Portugal, as well as at some of the Austrian stations, with rain at Lemberg and Buda Pesth. Thunderstorms occurring later in the west of France, with heavy rain at Rochefort; thunderstorm reported also at Karlstad.

Temperature risen in most parts of western Europe, but changed irregularly elsewhere. Morning readings highest, (1) 76° at Stockholm, 73° at Memel, and 72° at Faerder; (2) 75° at Palma, 74° at Sfax, and 73° at Bilbao, Barcelona, Athens, and Algiers; (3) 73° in London (above 65° in many parts of England). Lowest, (1) 45° at Archangel, and 50° at Haparanda; (2) 49° at Sumburgh Head, and 53° at Wick and Aberdeen. Rising during day to 75° and upwards over the central parts of Ireland and Scotland, and to 80° and upwards in many parts of England, France, and Germany; reaching 83° in London, and 84° at Biarritz.

Wind light to fresh from the Westward or South-Westward over the Spanish Peninsula; light from the Eastward over France and the south of England. South-Easterly in most other parts of our Islands, but Southerly on our extreme north-west coasts. Light to moderate from the Northward or North-Eastward over northern Russia, Sweden, and the Baltic; from the North-Westward in Denmark and Germany, and from the Westward or South-Westward in Austria. Variable in Greece and Italy. Subsequently shifting to the Westward on our extreme north-west coasts, and also in the south-west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards over the northern parts of Scandinavia; 30·1 ins. and upwards in an anticyclone extending thence over the North Sea, the Netherlands, and the north-east of France, as well as in smaller systems over Morocco and southern Italy. Lowest, 29·7 ins. and less in a depression over the south-west of Russia; 29·8 ins. and less in another disturbance over the north-east of Spain. Spanish depression subsequently moving northwards, and barometer falling on our own southern coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛⟶ = a heavy gale; ➤⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

WEEKLY WEATHER REPORT, 1895.

Appendices I. & II. have been published.

Appendices III. & IV. are in the Printer's hands.

The Title Page and Preface, with Mean Values derived from Observations extending up to the end of 1895, is in course of preparation.

WEEKLY WEATHER REPORT, 1896.

Appendix I. for the first quarter (January to March) has been published.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	6·2	-31·1	5	- 26	SOUTHPORT	38·3	?	33	?
OSWALDKIRK (Yorkshire)	25·6	-16·1	22	- 14	MANCHESTER (Oldham Road)	40·1*	?	35*	?
WORKSOP	26·9	-11·1	23	- 10	COLWYN BAY	50·0	?	43	?
THURCASTON (Leicestershire)	32·2	- 8·4	28	- 7	TENBY	54·8*	+ 0·8	48*	+ 1
MARGATE	51·4	+ 7·4	45	+ 6	NEWQUAY	48·2	- 4·7	43	- 4
WESTBOURNE (Sussex)	50·1*	0·0	44*	0	TORQUAY	56·9*	+ 2·2	51*	+ 2
BRIGHTON	55·6	+ 4·1	49	+ 4	ARLEY COTTAGE (County Cavan)	43.7	0·0	37	0
EASTBOURNE	52·3	+ 1·2	46	0	GUERNSEY	60·6*	+ 1·3	55*	+ 1

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 25.] *Third Series.* WEEK ENDING SATURDAY, JUNE 20TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 146.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	81	45	63·1	50·4	56·3	3 above	100	+31	0	− 1	88	+220	305	−317
	1. SCOTLAND, EAST	78	41	67·0	51·2	58·5	4 above	116	+33	0	0	988	+247	408	−241
	2. ENGLAND, N.E.	86	48	69·9	53·2	60·9	5 above	135	+43	0	0	983	+240	327	−222
	3. ENGLAND, EAST	84	46	73·0	53·2	62·4	5 above	143	+41	0	0	1114	+184	388	−219
	4. MIDLAND COUNTIES	86	45	73·3	52·6	62·2	5 above	141	+39	0	0	1211	+241	372	−247
	5. ENGLAND, SOUTH	86	47	71·8	56·3	63·5	6 above	151	+42	0	0	1253	+225	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	81	41	67·4	51·9	59·1	4 above	120	+32	0	0	1066	+264	234	−228
	7. ENGLAND, N.W.	84	49	71·2	55·4	62·8	6 above	146	+49	0	0	1159	+316	201	−258
	8. ENGLAND, S.W.	87	39	71·0	56·0	63·0	6 above	147	+44	0	0	1305	+304	155	−206
	9. IRELAND, NORTH	84	42	67·7	51·5	59·1	4 above	120	+28	0	0	1189*	+300	162	−233
	10. IRELAND, SOUTH	82	42	67·7	52·8	59·7	3 above	124	+24	0	0	1381	+332	89	−210
	—CHANNEL ISLANDS	77	54	67·9	57·6	62·3	4 above	142	+33	0	0	1526	+384	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 146.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	15	9 more	118	+ 5	26·4	+ 3·9	40	+ 1	32	0	547	− 33	25	− 2
	1. SCOTLAND, EAST	5	6	1 more	88	− 2	9·6	− 3·5	51	+ 9	42	+ 8	656	+ 28	32	+ 1
	2. ENGLAND, N.E.	4	4	1 less	73	−12	7·1	− 3·5	61	+21	51	+18	659	+ 13	31	+ 1
	3 ENGLAND, EAST	1	1	4 less	78	− 5	8·5	− 1·9	66	+20	58	+18	768	+ 21	36	+ 1
	4. MIDLAND COUNTIES	3	4	2 less	72	− 9	7·8	− 3·9	64	+22	55	+19	713	+ 33	33	+ 1
	5. ENGLAND, SOUTH	2	2	2 less	68	−10	7·2	− 4·7	66	+18	58	+16	776	+ 1	36	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	15	8 more	94	− 1	18·1	− 3·0	53	+ 8	45	+ 7	717	+ 32	32	+ 1
	7. ENGLAND, N.W.	4	5	0 (average)	84	− 3	12·1	− 1·5	63	+19	54	+16	690	+ 62	35	+ 3
	8. ENGLAND, S.W.	3	6	0 (average)	73	−15	9·7	− 6·6	67	+15	59	+13	865	+ 41	40	+ 2
	9. IRELAND, NORTH	6	15	9 more	96	− 5	14·7*	− 1·0	48	+ 6	41	+ 6	670	+ 11	31	0
	10. IRELAND, SOUTH	5	12	6 more	82	−12	12·5	− 4·9	55	+11	47	+ 9	755	+ 6	35	0
	—CHANNEL ISLANDS	3	3	1 less	81	−14	7·4	− 6·5	72	+16	64	+14	956	+ 12	44	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied a good deal in different parts of the Kingdom. At first it was fine and very warm in all districts, but by the middle of the week it had become rainy and cooler very generally, with thunderstorms in several parts of Great Britain. These unsettled rainy conditions continued over the greater part of Ireland and Scotland, but over England the weather towards the close of the period again became fine and dry.

Temperature continued above the mean, the excess ranging from 3° or 4° in Ireland and Scotland, to 5° or 6° over England. The highest of the maxima were registered either on the 15th or 16th, when the thermometer rose to 87° in England S.W., to between 84° and 86° in the other English districts, to between 82° and 84° in Ireland, and to between 78° and 81° over Scotland. In the Channel Islands the highest reading was 77°. The lowest of the minima were recorded during the latter part of the period, and ranged from 39° in England S.W., and 41° in Scotland W., to 49° in England N.W., and to 54° in the Channel Islands.

Rainfall was considerably more than the mean over Ireland and Scotland, and just equal to the normal in England N.W. and S.W.; in all other districts, however, there was a defect.

Bright Sunshine exceeded the mean in all districts excepting Scotland N. The percentage of the possible duration ranged from 64 in the Channel Islands, and from between 51 and 59 over England, to 41 in Ireland N., and to 32 in Scotland N.

Barometer and Wind.—Soon after the commencement of the period shallow depressions approached our Islands from the Southward, causing light Easterly winds over the Kingdom generally. By the 16th these systems had dispersed, but other and rather deeper disturbances had appeared over our western and north-western districts, and the wind had shifted to between South-West and West. During the latter days of the week an anticyclone spread over the southern parts of the Kingdom from the Continent, and the track of the cyclonic systems lay further to the northward.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 145 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	47	58·0	48·4	52·9	+ 3·0	76	0		0·20	−0·25	*	*	*	*
	Stornoway	67	45	61·4	50·6	55·6	+ 3·5	95	0	5	1·46	+0·81	45·7	+ 2·5	37	+ 2
	Wick	67	49	62·0	52·0	56·7	+ 4·2	103	0	5	0·91	+0·49	*	*	*	*
	Glencarron Ⓢ	74	47	64·2	48·3	55·7	+ 2·0	96	0		3·10	+1·32	*	*	*	*
	Fort Augustus Ⓢ	81	45	67·5	51·3	58·8	+ 4·0	118	0	5	0·98	+0·16	31·9	+[illegible]1·0	26	+ 1
	Fort William Ⓢ	78	50	65·4	51·8	58·1	+ 3·5	113	0		2·54	+1·64	40·3	− 1·9	33	− 2
1. SCOTLAND, E.	Nairn	73	45	66·1	50·9	58·6	+ 3·3	112	0	5	0·65	+0·25	*	*	*	*
	Aberdeen	70	49	65·0	51·6	57·8	+ 3·7	111	0	5	0·60	+0·20	48·1	+ 2·2	39	+ 2
	Braemar Ⓢ	76	46	66·0	49·7	57·3	+ 5·0	107	0	3	0·26	−0·32	48·8†	+ 6·5†	40†	+ 5†
	Ochtertyre Ⓢ	78	47	68·7	51·3	59·4	+ 4·1	122	0	5	1·17	+0·57	*	*	*	*
	Leith	70	51	66·9	52·7	59·3	+ 3·5	121	0	5	0·40	−0·02	*	*	*	*
	Marchmont Ⓢ	78	44	69·4	50·7	59·4	+ 5·2	122	0	4	0·30	−0·28	60·0	+17·7	50	+15
2. ENGLAND, N.E.	Alnwick Castle	71	50	66·9	52·7	59·3	+ 5·2	121	0	4	0·60	+0·17	*	*	*	*
	Durham	83	48	74·5	52·7	62·8	+ 7·0	146	0	4	0·34	−0·10	62·9	+23·8	53	+20
	Shields	72	50	67·4	53·1	59·8	+ 5·1	125	0	5	0·31	−0·09	*	*	*	*
	Scarborough Ⓜ	74	51	68·1	52·7	59·9	+ 4·2	125	0	4	0·30	−0·18	*	*	*	*
	York	86	50	74·9	52·9	63·1	+ 6·0	148	0	4	0·59	+0·07	61·7	+21·6	52	+19
	Spurn Head	71	51	67·3	55·0	60·7	+ 4·7	131	0	2	0·04	−0·34	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	84	46	75·3	51·8	62·7	+ 5·5	145	0	1	0·06	−0·44	70·3	+25·2	60	+23
	Yarmouth	74	52	65·4	55·7	61·6	+ 5·0	137	0	1	0·09	−0·33	*	*	*	*
	Geldeston	80	49	72·6	52·8	62·0	+ 5·2	140	0	1	0·02	−0·38	67·3	+18·3	59	+16
	Cambridge	83	48	76·0	52·6	63·5	+ 5·2	151	0	2	0·03	−0·49	69·1	+23·8	60	+21
	Rothamsted	80	49	72·8	53·2	62·3	+ 5·1	142	0	1	0·06	−0·43	59·0	+14·1	51	+12
4. MIDLAND COUNTIES	Harrogate Ⓜ	78	48	69·7	52·7	60·6	+ 4·5	130	0	4	0·84	?	55·1	+13·4	47	+12
	Bawtry (Hesley Hall)	86	?	75·3	?	?	?	?	0	3	0·26	−0·25	*	*	*	*
	Loughborough	84	50	73·0	53·4	63·9	+ 5·5	153	0	2	0·30	−0·19	*	*	*	*
	Stamford (Ketton Hall)	83	45	74·9	52·1	62·7	+ 5·1	145	0	4	0·35	−0·07	*	*	*	*
	Cheadle Ⓜ	82	47	72·3	53·0	62·0	+ 6·6	140	0	2	0·35	−0·35	*	*	*	*
	Shirley (near Solihull)	82	46	72·7	51·2	61·2	+ 3·8	134	0	4	0·45	?	*	*	*	*
	Churchstoke Ⓜ	82	45	72·7	51·5	61·4	+ 5·8	136	0	3	0·20	−0·30	73·8	+30·1	63	+25
	Hereford Ⓜ	84	46	75·0	53·0	63·2	+ 5·1	148	0	3	0·29	−0·18	*	*	*	*
	Cirencester	82	46	72·7	52·0	61·6	+ 5·1	137	0	3	0·39	−0·13	68·9	+24·1	60	+22
	Oxford	82	50	73·3	54·4	63·2	+ 4·8	148	0	1	0·09	−0·39	61·2	+16·4	53	+14
5. ENGLAND, S.	London	86	49	76·7	56·4	65·8	+ 6·2	167	0	1	0·06	−0·41	65·7†	+23·9†	57†	+21†
	North Foreland	71	53	68·3	56·4	61·9	+ 5·3	139	0	1	0·02	?	*	*	*	*
	Dungeness	75	54	67·9	56·7	61·9	+ 4·4	139	0	1	0·05	−0·29	*	*	*	*
	Hastings (St. Leonards)	80	54	71·3	56·5	63·4	+ 5·9	150	0	1	0·17	−0·20	72·4	+19·9	64	+18
	Southampton	84	49	75·3	56·3	65·1	+ 5·9	162	0	4	0·32	−0·08	?65·7	?+17·0	?58	?+15
	Hurst Castle	79	54	70·9	58·1	64·1	+ 5·7	155	0	2	0·24	−0·18	*	*	*	*
	Stowell Ⓜ	82	47	72·2	53·5	62·2	+ 4·8	141	0	5	0·52	+0·01	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	80	48	66·8	51·7	58·7	+ 3·5	117	0	6	2·10	+1·10	*	*	*	*
	Glasgow	79	50	67·9	52·5	59·7	+ 4·2	124	0	5	0·99	+0·39	45·4	+ 6·6	38	+ 6
	Ardrossan	76	53	66·4	55·4	60·1	+ 4·4	127	0	5	1·48	+0·96	*	*	*	*
	Glenlee Ⓢ	81	41	69·5	48·6	58·3	+ 3·3	114	0	6	1·52	+0·82	*	*	*	*
	Douglas (Isle of Man)	77	47	67·6	51·4	58·9	+ 3·6	118	0	5	1·23	+0·75	60·5	+ 9·0	51	+ 7
7. ENGLAND, N.W.	Stonyhurst	80	50	70·3	54·0	61·6	+ 5·4	137	0	4	0·79	+0·04	66·4	+21·7	56	+18
	Blackpool Ⓜ	83	53	71·2	55·4	62·8	+ 6·1	146	0	4	0·57	+0·09	61·0	+16·1	52	+14
	Manchester (Prestwich)	83	50	74·1	54·4	63·6	+ 7·1	151	0	3	0·56	−0·12	63·9	?	54	?
	Liverpool Obsy. (Bidston)	84	52	73·3	57·3	64·7	+ 7·2	159	0	4	0·35	−0·10	*	*	*	*
	Llandudno Ⓜ	80	53	70·9	57·2	63·6	+ 6·3	151	0	3	0·05	−0·37	*	*	*	*
	Holyhead	78	49	67·1	54·1	60·2	+ 3·5	127	0	4	0·66	+0·21	*	*	*	*
8. ENGLAND, S.W.	Llandovery	87	39	75·0	52·0	62·7	+ 5·8	145	0	5	0·67	+0·02	*	*	*	*
	Pembroke	76	54	65·3	57·4	61·1	+ 5·2	134	0	3	0·65	+0·20	68·5	+13·7	60	+12
	Clifton	84	53	73·9	57·9	65·3	+ 7·7	163	0	2	0·35	−0·15	*	*	*	*
	Arlington (N. Devon)	83	48	71·1	55·1	62·5	+ 7·1	144	0	4	0·80	+0·10	*	*	*	*
	Cullompton Ⓜ	83	47	74·7	54·1	63·7	+ 5·9	152	0	2	0·40	−0·14	55·1	+ 8·5	48	+ 7
	Falmouth	79	52	70·6	56·7	63·2	+ 6·0	148	0	2	0·55	−0·04	68·5	+14·8	61	+14
	Plymouth	81	51	70·1	58·0	63·6	+ 4·6	151	0	2	0·68	+0·24	71·6	+23·5	63	+20
	Prawle Point	78	51	67·1	56·6	61·5	+ 5·3	137	0	2	0·36	+0·01	*	*	*	*
9. IRELAND N.	Malin Head	68	50	61·9	52·6	56·9	+ 2·2	104	0	6	1·35	?	*	*	*	*
	Londonderry	84	46	70·5	51·9	60·5	+ 3·8	130	0	6	1·44	+0·87	*	*	*	*
	Edenfel (Omagh)	79	42	69·7	51·6	60·6	+ 5·1	126	0	5	1·39	+0·81	*	*	*	*
	Belmullet	71	?	63·4	?	?	?	?	?	6	1·52	+1·11	*	*	*	*
	Markree Castle	78	43	68·0	50·3	59·1	+ 3·5	113	0	6	1·89	+1·21	47·0	+ 7·0	40	+ 6
	Armagh	81	46	68·4	51·7	59·5	+ 3·7	123	0	6	1·45	+0·92	50·5	+ 8·9	43	+ 8
	Donaghadee	72	46	67·4	52·1	59·2	+ 3·6	120	0	5	2·00	+1·55	*	*	*	*
	Edgeworthstown	82	44	69·1	50·5	59·2	+ 2·6	120	0	4	0·79	+0·19	*	*	*	*
10. IRELAND, S.	Dublin	81	49	70·4	55·0	62·2	+ 4·3	141	0	4	1·16	+0·75	63·6	+18·0	54	+16
	Parsonstown	82	45	69·6	52·1	60·2	+ 3·8	127	0	5	1·43	+0·91	52·8	+12·5	45	+10
	Kilkenny	82	42	70·1	51·0	59·9	+ 3·0	125	0	5	1·34	+0·83	*	*	*	*
	Roche's Point	72	50	66·9	54·9	60·5	+ 2·8	130	0	2	0·65	−0·07	*	*	*	*
	Valencia	68	49	63·6	52·6	57·7	+ 0·8	110	0	6	1·01	+0·21	49·5	+ 2·1	43	+ 2
	Killarney	80	46	67·7	51·4	59·0	+ 2·8	119	0	6	1·25	?	*	*	*	*
	Foynes	75	48	65·9	52·4	58·7	+ 2·4	117	0	5	1·75	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	55	67·3	57·1	61·8	+ 4·4	139	0	2	0·31	−0·09	71·1	?	63	?
	Jersey	77	54	68·4	58·0	62·8	+ 3·9	146	0	4	0·36	−0·05	70·7	+14·0	63	+12

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

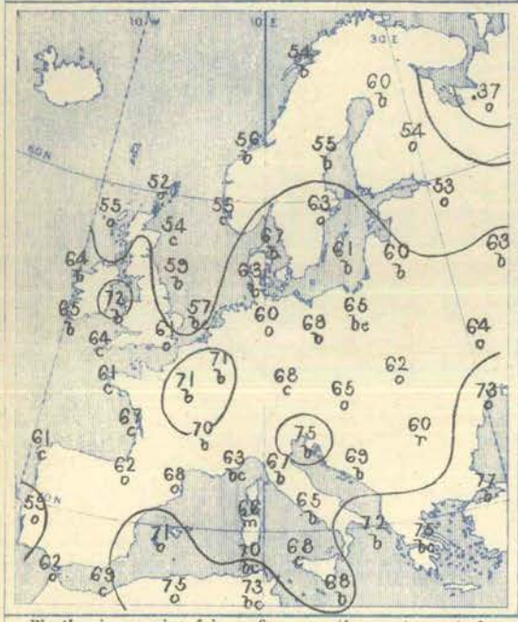
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 14th June.

Temperature and Weather.

8 a.m.

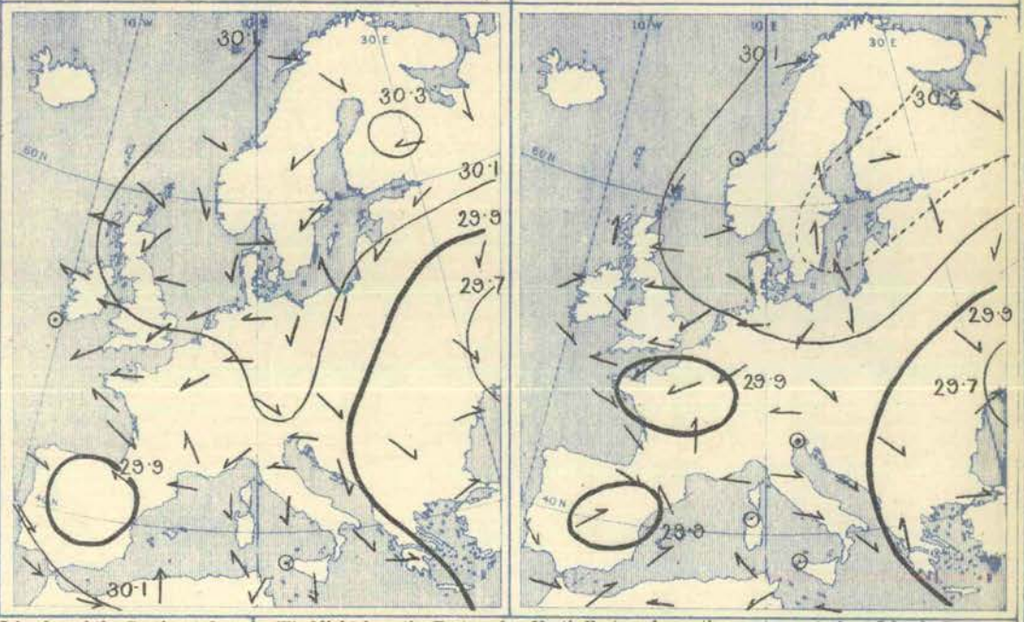


Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull on our extreme north and north-west coasts, and also over central England, with drizzling rain at Cambridge. Dull over Algeria and the Spanish Peninsula, with rain at Bilbao. Thunderstorms and heavy rain occurring later in many parts of France—amount as large as 1·5 ins. at Besançon and 1·3 ins. at Rochefort. Lightning reported at night over the western parts of the English Channel, and distant thunder heard at Nairn.

Temperature changed rather irregularly. Morning readings highest, (1) 77° at Constantinople, and 75° at Trieste, Patras, and Aumale; (2) 72° at Holyhead, and 70° at Liverpool and Parsonstown; (3) 71° at Brussels and Paris; (4) 70° at Faerder and Copenhagen. Lowest, (1) 37° at Archangel, 53° at St. Petersburg, and 54° at Kuopio and Bodö; (2) 52° at Sumburgh Head, and 54° at Aberdeen. Rising during day to 75° and upwards at many of the English and Irish stations, to 82° at Parsonstown, and to 83° at Liverpool. Exceeding 80° in several parts of central and southern Europe; reaching 85° at Paris and Nancy, 86° at Berlin, and 89° at Charleville.

Barometer and Wind.

8 a.m. | 6 p.m.



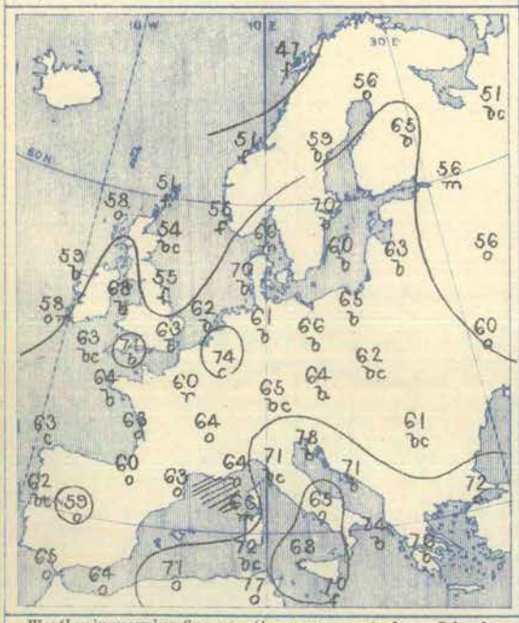
Wind light from the Eastward or North-Eastward over the greater part of our Islands, France, Germany, and the Netherlands, but showing a distinct cyclonic circulation over the central parts of France; moderate to fresh from the North-Westward over Portugal and the south of Spain. North-Westerly in the west of Norway; North-Easterly over Sweden and northern Russia. Northerly or North-Westerly over Poland, Austria, and the Adriatic, but Westerly or South-Westerly in the south of Russia. Subsequently becoming very variable in the north of our Islands; shifting to the North-Westward in the west of France.

Barometer highest, 30·31 ins. at Archangel and Kuopio; 30·1 ins. and upwards in an anticyclone covering the greater part of northern Europe, and extending over the North Sea and all the more northern and eastern parts of our Islands. Lowest, 29·7 ins. and less in a shallow depression over the south of Russia; 29·9 ins. and less in another system over Spain. Latter disturbance subsequently moving eastwards; new depression forming over the northern parts of France, and yet another appearing off the north-west of Scotland.

Monday, 15th June.

Temperature and Weather.

8 a.m.

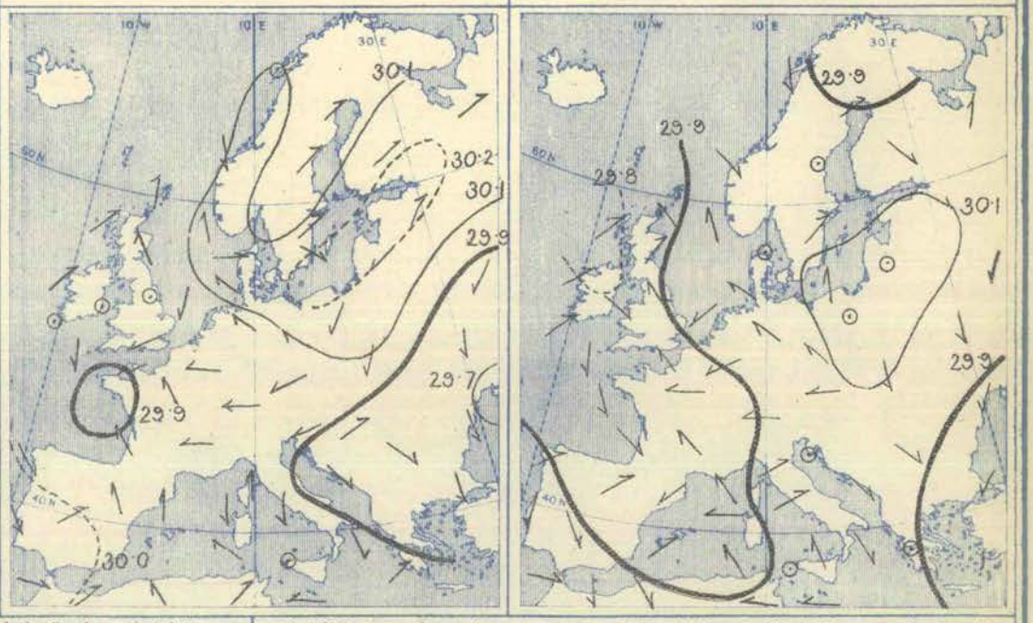


Weather in morning fine over the greater part of our Islands and the Continent, but dull over central England, and foggy on many parts of our northern coasts, as well as in the west of Norway. Dull at most of the French and Spanish stations, with rain at Paris, Belfort, Nice, and Bilbao. Heavy rain falling later in many parts of France and Belgium, with a thunderstorm at Toulouse; thunder heard over the Channel and the south of England. Rain setting in at night over Ireland and the north of Scotland.

Temperature risen over England and the Netherlands, as well as in Sweden and Austria, fallen in most other countries. Morning readings highest, (1) 77° at La Calle, 76° at Athens and Patras, and 74° at Brindisi; (2) 74° at Prawle Point, and 72° at Liverpool; (3) 70° at Fanö and Stockholm. Lowest, 47° at Bodö, 51° at Archangel, Christiansund, and Sumburgh Head, and 53° at Leith. Rising during day to between 80° and 85° in many parts of England, and reaching 86° in London. Exceeding 80° in Germany, Austria, and Italy, and exceeding 85° in Denmark, but remaining below 75° at most of the French stations.

Barometer and Wind.

8 a.m. | 6 p.m.



Wind light to moderate from the Westward (South-West to North-West) over the Spanish Peninsula, but from the South-Eastward or Eastward over France, Germany, and the Netherlands, and from the North-Eastward or Northward over England. Southerly on our extreme north and north-west coasts; variable in Norway; South-Westerly over Sweden and northern Russia. North-Easterly over the central and southern parts of Russia, but North-Westerly in Austria and variable in Italy. Subsequently shifting to the Westward or North-Westward in the west of France, and to the South-Westward at some of the Channel stations; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards over the Baltic and the neighbouring parts of Russia; 30·1 ins. and upwards in an anticyclone covering the greater part of northern Europe; 30·0 ins. and upwards in another system over the Spanish Peninsula. Lowest, 29·7 ins. and less in a depression over Corsica; 29·9 ins. and less in a shallow disturbance over the north-west of France. Corsican depression filling up later; French disturbance spreading northwards over the south of England; new depression appearing off the west of Scotland in evening.

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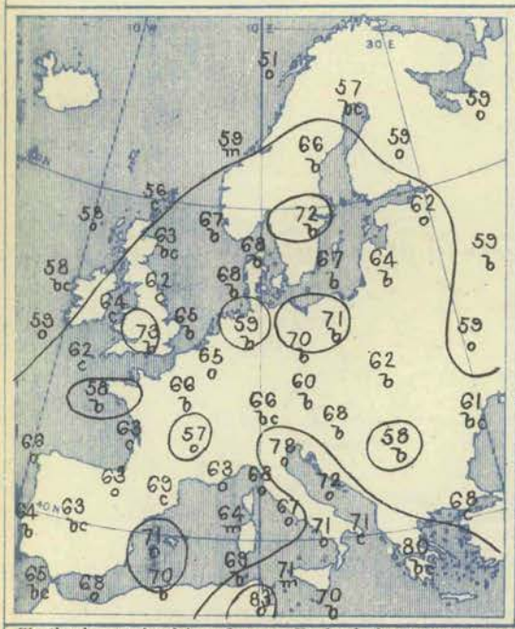
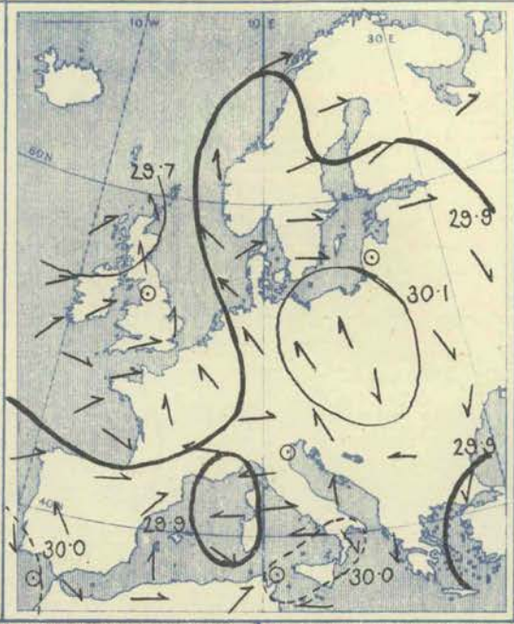
Tuesday, 16th June.

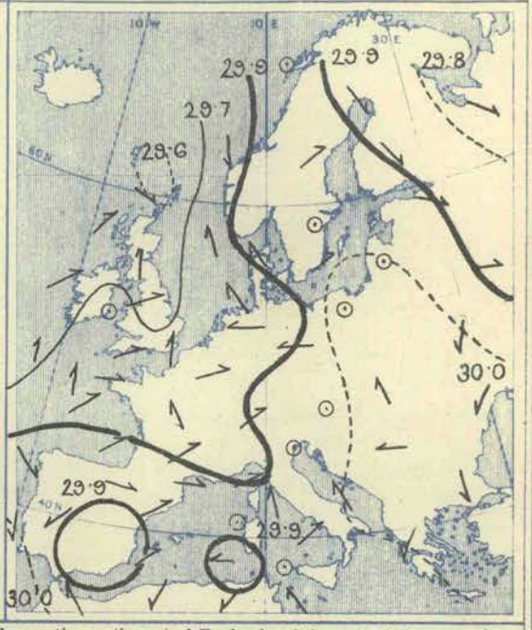
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over England, the east of Scotland, and the greater part of the Continent. Rainy in Ireland; dull in the west and south of Scotland, as well as in Italy and the central and southern parts of France, with rain at Le Mans. Thunderstorms occurring during day in many parts of Great Britain, and also at Clermont and Moscow; heavy rain setting in at night over the western parts of our Islands generally. Large quantities falling at some of the southern French stations—as much as 3·9 ins. at Gap.

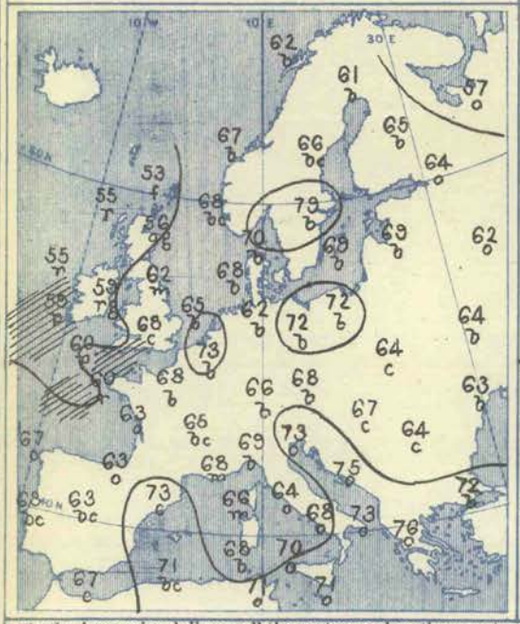
Temperature risen several degrees over the eastern and central parts of our Islands, and, to a less extent, over the Scandinavian and Spanish Peninsulas, falling in most other localities. Morning readings highest, (1) 88° at Tunis, 80° at Athens, and 78° at Trieste; (2) 74° at Karlstad and 72° at Stockholm; (3) 73° in London and 71° at Loughborough and Oxford. Lowest, (1) 51° at Bodö, and 56° at Sumburgh Head and Malin Head; (2) 57° at Lyons and 59° at Limoges. Rising during day to 80° and upwards in many parts of England and the Continent; reaching 86° at York and Stockholm, and 90° at Skagen and Berlin. Remaining below 75° at most of the French stations.

Wind light from the Westward over the south-west of England and the west of France, and from the South-Westward or Southward over the United Kingdom generally. Moderate from the South-Eastward over Denmark, Germany, the Netherlands, and the south of Norway. Light from South-West or West over Sweden and northern Russia, but from the Northward over the central and southern parts of Russia. Variable over southern Europe and the Mediterranean. Subsequently becoming rather variable over the northern parts of our Islands; no important change occurring elsewhere.

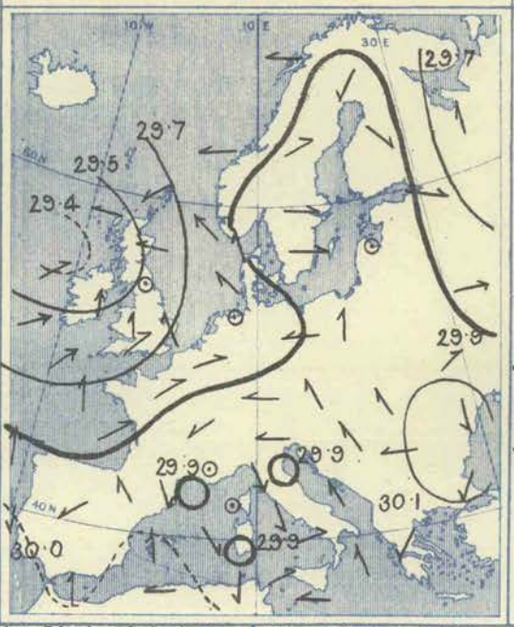
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over eastern Germany and the neighbouring parts of Russia. Lowest, 29·7 ins. and less in a shallow depression over Scotland and the north of Ireland; 29·9 ins. and less in another shallow depression over Corsica and Sardinia. Depression over Scotland subsequently spreading eastwards, new disturbance approaching the Irish coasts at night.

Wednesday, 17th June.

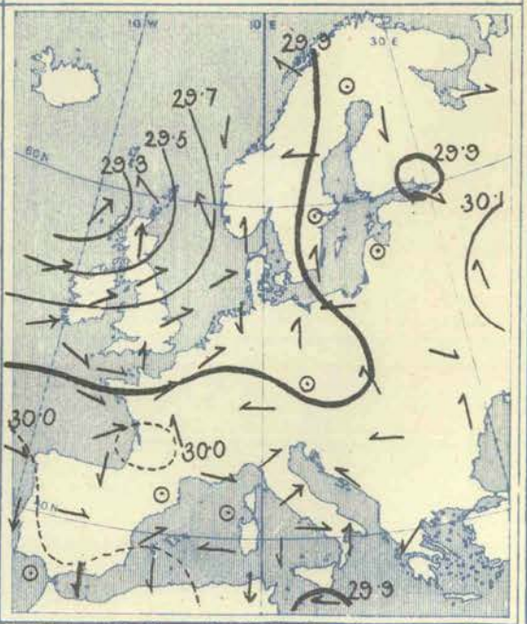
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over all the western and northern parts of our Islands and also in the west of France, with rain or passing showers in many places. Fine in nearly all other parts of Europe, but dull at several of the Russian and Italian stations. Rain falling later over nearly the whole of western Europe; amounts large on our own north-west coasts, as well as in some parts of France and Germany. Thunderstorms occurring at York and Moscow, and thunder at Fanö.

Temperature fallen in our Islands, but risen in most of the Continental countries. Morning readings highest, (1) 79° at Stockholm, and 73° at the Helder, Brussels, Münster, and Swinemunde; (2) 76° at Patras, 75° at Lésina, and 73° at Trieste, Brindisi, and Barcelona; above 65° in many parts of England. Lowest, (1) 53° at Sumburgh Head, 54° at Wick, and 55° at Stornoway and Belmullet; (2) 57° at Archangel; (3) 58° at Limoges and 61° at Turin. Daily maxima very little above 70° in any part of England, but thermometer exceeding 80° at several of the Continental stations; reaching 88° at Madrid and Cagliari, 93° at Berlin.

Wind moderate to fresh from the Westward in the south of Ireland, and from the South-Westward or Southward over England, the Netherlands, and the north of France; South-Easterly in Germany, Denmark, and the south of Norway; Easterly in the west of Norway and the north and east of Scotland. South-Westerly or Westerly in Sweden, but North-Westerly in Finland. Northerly or North-Easterly over Greece, Turkey, and the extreme south of Russia. Variable in Italy and the south of France. Subsequently veering to the Southward in Scotland, and to the Westward on our north-west coasts, and blowing strongly in places.

Barometer highest, 30·1 ins. and upwards over the Balkan provinces and the extreme south-west of Russia; 30·0 ins. and upwards in an anticyclone embracing the greater part of eastern and south-eastern Europe, and also in another system over Algeria and the south-western parts of the Spanish Peninsula. Lowest, 29·4 ins. and less in a well-marked depression off the north-west of Ireland. Depression subsequently moving northwards, and barometer rising in all parts of our Islands.

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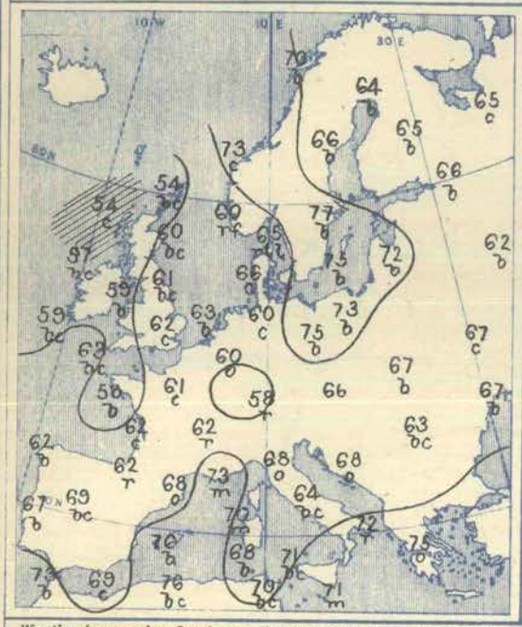
Thursday, 18th June.

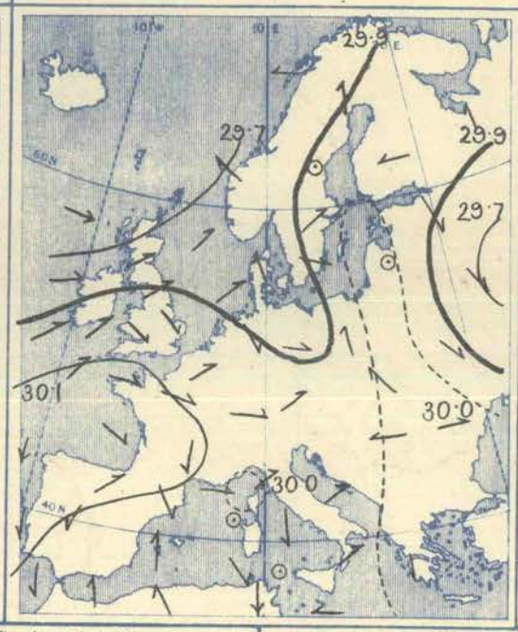
Temperature and Weather.

8 a.m.

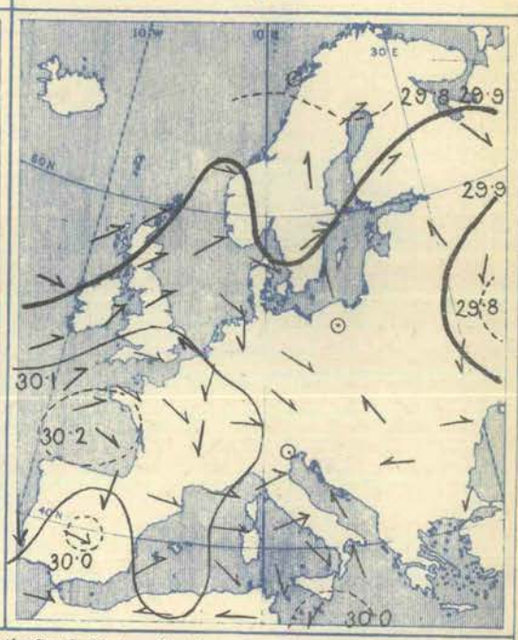


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in our Islands, and also at most of the Continental stations, but rainy at several of the southern French stations, as well as at Brindisi. Rain and fog reported at Skudesnaes, and a thunderstorm at Karlstad. Rain falling later in the west and north of our Islands generally, as well as in many parts of Norway, Denmark, Holland, and Germany; thunderstorm occurring at Nice, and thunder heard at Lyons. Solar and lunar halos seen in the south of England.

Temperature risen a little in Ireland and Scotland, as well as in many parts of central and eastern Europe, but fallen elsewhere. Morning readings highest, (1) 77° at Stockholm, and 75° at Wisby, Memel, Swinemünde, and Berlin; (2) 76° at Palma and Algiers, and 75° at Patras. Lowest, (1) 54° at Sumburgh Head and Stornoway, and 55° at Ardrossan; (2) 56° at Le Mans, and 58° at Cape Gris Nez and Munich. Rising during day to between 70° and 73° over the inland parts of England; exceeding 80° in many parts of Sweden, and central and southern Europe; reaching 84° at Stockholm, 88° at Neufahrwasser and Cagliari, and 91° at Madrid.

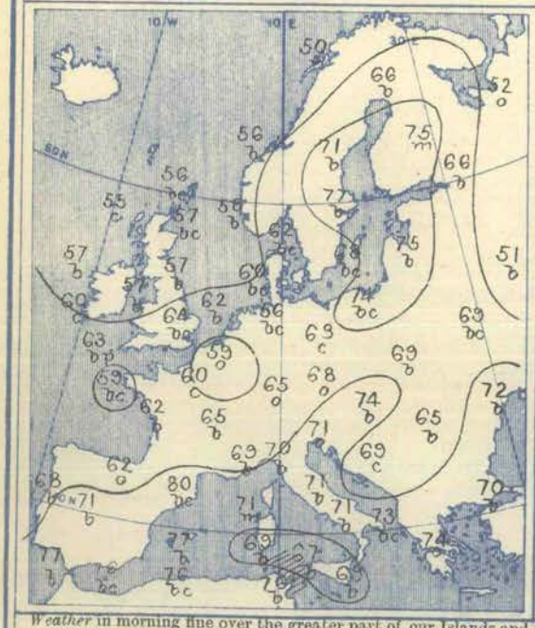
Wind moderate to fresh from the South-Westward in the west and north of our Islands, and from the South-Eastward or Eastward over Norway, Denmark, and eastern Germany. Light from the North-Westward over the central and south-eastern parts of England, and also over the Netherlands, France, Italy, and western Germany; Northerly or North-Easterly over the Spanish Peninsula; Northerly or North-Westerly at most of the Russian stations. Subsequently backing to the Westward or South-Westward over England; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone extending from the south-westward over the Bay of Biscay, France, the western parts of the English Channel, and the northern and western parts of the Spanish Peninsula, and also in another system over Algeria. Lowest, 29·6 ins. and less in a depression off the north of Scotland; 29·7 ins. and less in another disturbance over central Russia. Anticyclone in south-west subsequently spreading northwards and eastwards, and barometer rising in all parts of western Europe.

Friday, 19th June.

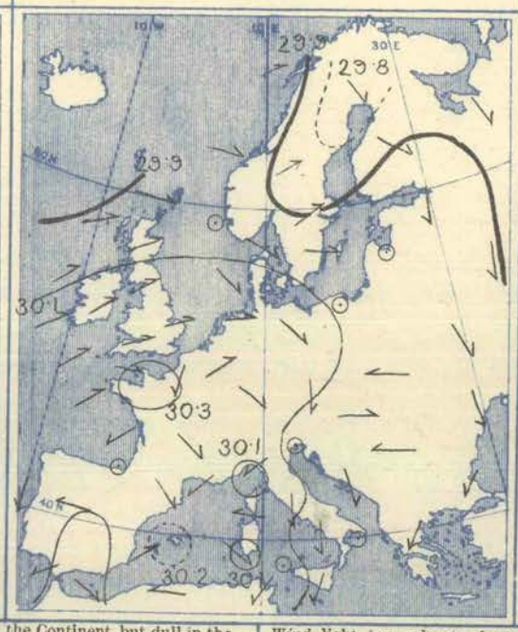
Temperature and Weather.

8 a.m.

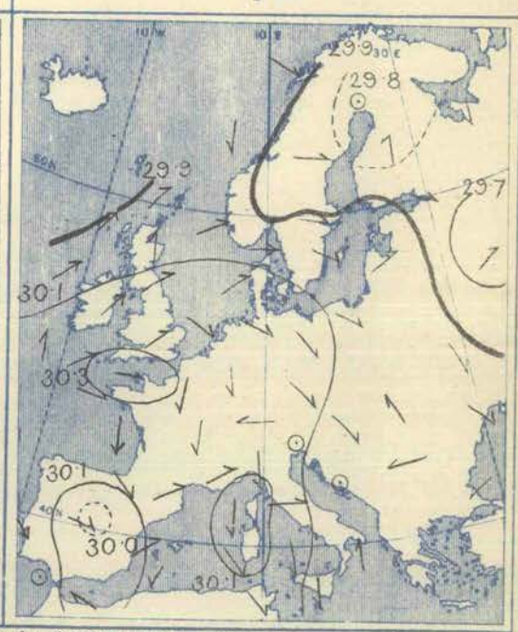


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the Netherlands. Rain falling at Bodö, and passing showers at Malin Head and Scilly. Rain setting in later over the western and northern parts of our Islands generally, as well as in Scandinavia and at some of the southern French stations. Thunder occurring at Aberdeen and Lorient, and lightning at Biarritz.

Temperature fallen decidedly in the west of Norway, risen a little in most parts of southern Europe, changed irregularly elsewhere. Morning reading highest, (1) 80° at Barcelona, 77° at San Fernando and Palma, and 76° at several of the Algerian stations; (2) 77° at Stockholm and Memel, and 75° at Kuopio and Riga; above 60° over the central and southern parts of England. Lowest, (1) 50° at Bodö, 54° at Malin Head, and 55° at Stornoway and Leith; (2) 51° at Moscow and 52° at Archangel; (3) 56° at Cuxhaven and 57° at Cape Gris Nez and Le Mans. Rising during day to between 70° and 74° over the eastern and central parts of England, and to 75° and upwards over Sweden and Germany; exceeding 80° in many parts of southern Europe, and reaching 94° at Madrid.

Wind light to moderate from the South-Westward or Westward over our Islands, the Netherlands, and the north of France; and from North-West in Denmark and Germany; rather variable, but chiefly Northerly, over Italy and the south of France; variable or Easterly in Spain, South-Westerly in Sweden, but Northerly at most of the Russian stations. Subsequently freshening from the South-Westward on our own extreme north-west coasts, increasing to a gale from the Westward at Faerder and Karlstad.

Barometer highest, 30·31 ins. at Le Mans; 30·3 ins. at Jersey, Paris, and Munich; 30·1 ins. and upwards in an anticyclone embracing all the more south-western parts of the Continent, and extending northwards over England and Ireland. Lowest, 29·8 ins. and less in a depression over the northern parts of Sweden and the Gulf of Bothnia; 29·9 ins. and less in another disturbance off the north of Scotland. New depression appearing later off our western coasts, and moving steadily northwards; well-marked disturbance forming over central Russia.

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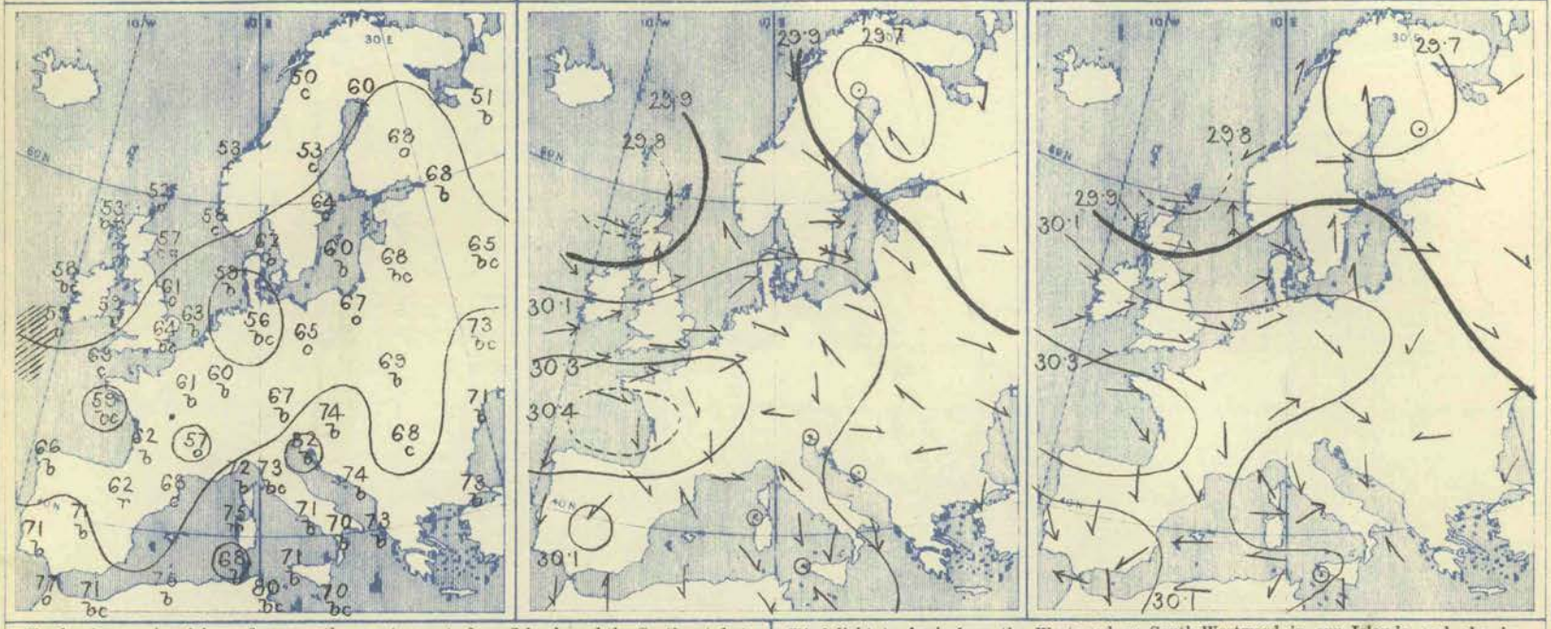
Saturday, 20th June.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but rainy at Stornoway, and showery at Holyhead. Dull over the northern and eastern parts of Germany; rainy at Biarritz and Toulon. Showers falling later in the north and east of our Islands generally, with a thunderstorm at Spurn Head; rain occurring also in Denmark and Germany—amount large at Munich and Prague. Thunderstorms reported over Austria and south Germany, as well as at Moscow.

Temperature risen a little in our Islands, fallen several degrees in Sweden, changed irregularly elsewhere. Morning readings highest, (1) 82° at Trieste, 80° at Tunis, and 75° at Palma, Algiers, and Sfax; (2) 69° at Helsingfors, and 68° at Kuopio, St. Petersburg, and Riga; (3) 64° in London, and at Spurn Head, the North Foreland, and Hurst Castle. Lowest, (1) 50° at Bodö, 51° at Archangel, and 52° at Sumburgh Head; (2) 57° at Le Mans and L ons. Rising during day to between 70° and 74° over the eastern and central parts of England, and also in Sweden; reaching 75° or more in Germany, and 80° or more over southern and eastern Europe; the highest reading of all being 95° at Madrid.

Wind light to fresh from the Westward or South-Westward in our Islands, and also in Denmark, but South-Easterly in the south of Norway. Strong from the North-Westward in Sweden, with a gale at Wisby; light from the same quarter in Russia, eastern Germany, and Austria. Northerly over the greater part of France, Spain, and Italy, but Westerly in the extreme south of France. Subsequently veering to the North-Westward in the north of Scotland; backing to the South-Westward or Southward in Sweden, and to the North-Westward or Westward over the greater part of France.

Barometer highest, 30·4 ins. and upwards over the Bay of Biscay and the north-west of France; 30·2 ins. and upwards in an anticyclone covering nearly the whole of France, Germany, the Netherlands, and the southern parts of our Islands. Lowest, 29·7 ins. and less in two shallow depressions—one lying over Lapland, and the other over central Russia; 29·8 ins. and less in a third system lying off the north of Scotland. Scotch depression subsequently moving eastwards, and barometer rising again in the north or our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week a large anticyclone extended over our Islands from northern Europe; shallow low pressure systems being found respectively over Spain and over the south of Russia. On the 15th, however, the anticyclone broke up, while the Spanish depression spread northwards, the latter movement being attended by thunderstorms in some parts of England, but by little or no rain. In the meantime further depressions of a more decided character began to pass northwards along our extreme western coasts, their effect being to occasion a gradual extension of rainy, unsettled weather from the Atlantic over the whole of western Europe, with thunderstorms in many parts of Great Britain. During the latter part of the week, however, a large anticyclone spread in from the westward over all the more southern parts of Europe, including our own southern districts, where the weather again became fair and dry. Over the northern parts of our Islands and the Continent the conditions remained under the influence of depressions which continued to advance from the Atlantic, the wind being light to fresh from between South-West and North-West, and the weather changeable, with decided falls of rain in places, and with thunderstorms at several Continental stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	46·3	+10·0	38	+ 8	SOUTHPORT	61·1	?	52	?
OSWALDKIRK (Yorkshire)	58·4	+21·2	49	+ 16	MANCHESTER (Oldham Road)	55·8*	?	48*	?
WORKSOP	58·7	+22·5	50	+ 18	COLWYN BAY	68·7	?	59	?
THURCASTON (Leicestershire)	66·1	+26·9	56	+ 22	TENBY	*		*	
MARGATE	43·9	+ 1·9	39	+ 2	NEWQUAY				
WESTBOURNE (Sussex)	63·9*	+15·1	56*	+ 13	TORQUAY	70·8*	+16·0	63*	+ 14
BRIGHTON	75·3	+23·5	66	+ 21	ARLEY COTTAGE (County Cavan)	47·7	+ 4·8	40	+ 4
EASTBOURNE	75·1	+24·6	66	+ 21	GUERNSEY	74·3*	+16·5	66*	+ 15

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

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VOL. XIII. No. 26.] *Third Series.* WEEK ENDING SATURDAY, JUNE 27TH, 1896. [*Price 6d.* *Annual Subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the fifteen years 1881-95. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 152.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	73	41	60·9	48·3	54·2	0 (average)	85	+12	0	−1	893†	+232	305	−318
	1. SCOTLAND, EAST	77	39	64·8	48·6	56·1	1 above	99	+9	0	0	1087	+256	408	−241
	2. ENGLAND, N.E.	78	44	64·8	50·4	57·1	0 (average)	106	+10	0	0	1089	+250	327	−222
	3. ENGLAND, EAST	77	41	63·1	49·9	56·3	0 (average)	114	+6	0	0	1228	+190	388	−229
	4. MIDLAND COUNTIES	79	43	63·5	49·7	58·4	0 (average)	115	+7	0	0	1326	+248	372	−247
	5. ENGLAND, SOUTH	77	44	63·5	52·3	59·8	1 above	125	+10	0	0	1378	+235	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	74	38	64·8	51·2	57·6	1 above	109	+16	0	0	1175	+280	234	−228
	7. ENGLAND, N.W.	71	44	64·9	52·3	58·2	0 (average)	113	+11	0	0	1275	+327	201	−258
	8. ENGLAND, S.W.	82	42	69·0	52·1	59·9	2 above	125	+17	0	0	1430	+321	155	−206
	9. IRELAND, NORTH	77	41	61·0	51·2	57·2	1 above	106	+9	0	0	1295	+309	162	−233
	10. IRELAND, SOUTH	74	43	66·5	53·5	59·6	2 above	123	+18	0	0	1504	+350	89	−210
	—CHANNEL ISLANDS	71	48	66·9	55·7	60·9	2 above	132	+17	0	0	1658	+401	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	2 less	122	+6	26·9	+3·7	23	−15	18	−13	570	−48	25	−2
	1. SCOTLAND, EAST	4	4	1 less	92	−1	10·0	−3·6	41	+1	34	+1	727	+29	32	+1
	2. ENGLAND, N.E.	3	2	2 less	76	−12	7·3	−3·7	46	+8	39	+7	735	+21	31	+1
	3 ENGLAND, EAST	2	3	2 less	80	−5	8·8	−2·1	42	−3	37	−2	810	+18	36	+1
	4. MIDLAND COUNTIES	3	6	1 more	75	−8	8·4	−3·8	41	+1	35	0	754	+33	33	+1
	5. ENGLAND, SOUTH	2	2	2 less	70	−10	7·4	−4·9	51	+4	45	+3	827	+5	37	+1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	2 less	98	−1	18·6	−3·2	50	+6	42	+5	767	+38	34	+2
	7. ENGLAND, N.W.	4	7	2 more	88	−2	12·8	−1·4	42	+5	35	+5	732	+67	35	+3
	8. ENGLAND, S.W.	1	1	4 less	74	−16	9·8	−7·0	67	+15	59	+14	931*	+55	41	+2
	9. IRELAND, NORTH	4	6	2 more	100	−5	15·3	−0·9	21	−19	17	−16	691	−7	30	0
	10. IRELAND, SOUTH	3	3	3 less	85	−12	12·8	−5·1	31	−11	27	−10	786	−5	35	0
	—CHANNEL ISLANDS	1	less than ½	4 less	82	−15	7·4	−6·9	73	+23	65	+21	1029	+34	45	+1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was at first fine over the southern and eastern parts of the Kingdom, but unsettled in the west and north, with frequent, and in some cases heavy, falls of rain. Later on showery weather became general, and on the 24th thunderstorms were experienced in many parts of England, as well as in isolated parts of Ireland and Scotland. Towards the close of the week an improvement was reported in most districts.

Temperature agreed very closely with the average in the "Wheat-producing" districts, and also in England N.W., but was slightly above the normal over the western parts of the Kingdom generally. The highest readings occurred mostly on the 27th, when the thermometer rose to 75° and upwards in nearly all the English districts, as well as in Scotland E. and Ireland N., and to 82° in England S.W. In England N.W. and the Channel Islands it did not exceed 71°. The lowest readings were observed on various dates in the different districts, but mostly either on the 22nd or 23rd, or on the 26th or 27th; in the Channel Islands the thermometer did not go below 48°, but in most other districts it fell to between 41° and 44°, in Scotland E. to 39°, and in Scotland W. to 38°.

Rainfall was less than the mean in all districts excepting the Midland counties, England N.W., and Ireland N., where there was a slight excess.

Bright Sunshine was very deficient in Ireland and the north of Scotland, and slightly below the mean in England E. In all other districts the amount was in excess of the normal, the difference in England S.W. and the Channel Islands being large. The percentage of the possible duration ranged from 65 in the Channel Islands, and 59 in England S.W., to 18 in Scotland N., and 17 in Ireland N.

Barometer and Wind.—During the early part of the week an anticyclone extended from the southward over the more southern parts of our Islands, while depressions moved south-eastwards across Scandinavia, the prevailing winds being Westerly. Later on, when some shallow secondary depressions spread over us from the northward, the winds became rather variable, though mainly from some northerly point. Towards the close of the time a new anticyclone advanced from the westward, but on the 27th further depressions appeared off our northern coasts, so that the wind again backed to the westward in most places.

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* This value has been altered owing to the receipt of further information for a preceding week.
† The corresponding value for last week should be 808.

II.—DATA from which the SUMMARY on page 151 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	66	41	57·3	45·3	50·9	0·0	62	0	3	0·17	−0·27	*	*	*	*
	Stornoway	66	45	60·4	49·1	54·4	+ 1·6	87	0	4	0·62	−0·03	25·6	−16·8	20	−14
	Wick	73	40	60·6	46·3	53·0	− 0·5	77	0	2	0·15	−0·31	*	*	*	*
	Glencarron Ꞩ	65	44	60·1	48·3	53·8	− 0·5	83	0	5	1·14	−0·01	*	*	*	*
	Fort Augustus Ꞩ	69	44	64·5	49·8	56·6	+ 0·9	102	0	4	0·41	−0·17	22·1	− 7·9	18	− 6
	Fort William Ꞩ	69	48	62·6	50·8	56·3	+ 0·8	100	0	6	0·68	−0·30	19·8	−21·2	16	−19
1. SCOTLAND, E.	Nairn	74	41	63·0	47·9	54·9	− 0·8	90	0	4	0·58	+0·19	*	*	*	*
	Aberdeen	74	45	61·7	48·3	54·5	− 0·6	88	0	4	0·23	−0·16	30·5	−14·0	25	−11
	Braemar Ꞩ	71	39	63·4	47·0	54·6	+ 1·3	88	0	5	0·32	−0·31	43·3†	+ 2·5†	35†	+ 2†
	Ochtertyre Ꞩ	74	46	69·3	50·0	59·0	+ 2·8	119	0	4	0·64	+0·05	*	*	*	*
	Leith	74	45	67·0	50·3	58·1	+ 1·5	113	0	3	0·36	−0·06	*	*	*	*
	Marchmont Ꞩ	77	42	64·6	47·9	55·7	+ 0·5	96	0	2	0·34	−0·24	43·0	+ 1·9	36	+ 2
2. ENGLAND, N.E.	Alnwick Castle	67	46	61·4	50·0	55·3	+ 0·1	93	0	5	0·29	−0·13	*	*	*	*
	Durham	78	44	68·6	48·0	57·6	+ 0·6	109	0	3	0·17	−0·25	47·7	+ 9·7	40	+ 8
	Shields	76	45	63·7	49·7	56·2	+ 0·5	99	0	3	0·21	−0·22	*	*	*	*
	Scarborough ℳ	72	47	63·0	51·1	56·6	− 0·4	102	0	3	0·16	−0·31	*	*	*	*
	York	77	45	69·3	50·4	59·2	+ 1·0	120	0	3	0·39	−0·13	44·9	+ 6·3	38	+ 6
	Spurn Head	66	51	62·9	53·3	57·8	+ 0·1	111	0	2	0·18	−0·19	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	76	43	69·1	48·4	58·0	− 0·4	112	0	3	0·56	+0·06	38·3	− 5·2	23	− 4
	Yarmouth	69	47	64·7	51·9	57·9	− 0·7	111	0	2	0·13	−0·31	*	*	*	*
	Geldeston	72	41	67·4	48·4	57·2	− 0·9	106	0	2	0·29	−0·11	46·9	− 0·3	41	0
	Cambridge	77	44	70·3	50·9	59·9	+ 0·5	125	0	3	0·04	−0·49	46·6	+ 2·6	41	+ 3
	Rothamsted	75	43	68·8	49·9	58·7	+ 0·3	117	0	2	0·44	−0·06	36·7	− 8·0	32	− 6
4. MIDLAND COUNTIES	Harrogate ℳ	72	43	66·3	50·2	57·7	+ 0·6	110	0	3	0·48	?	45·8	?	39	?
	Bawtry (Hesley Hall)	73	?	68·0	?	?	?	?	?	3	0·68	+0·17	*	*	*	*
	Loughborough	76	44	69·6	50·0	59·1	− 0·2	120	0	4	1·16	+0·67	*	*	*	*
	Stamford (Ketton Hall)	?75	44	?69·0	48·7	?58·1	? − 0·4	116	0	? 3	? 0·33	? −0·06	*	*	*	*
	Cheadle ℳ	71	45	65·5	49·3	56·8	+ 0·6	104	0	3	1·01	+0·31	*	*	*	*
	Shirley (near Solihull)	75	44	67·6	48·6	57·4	− 1·0	108	0	4	0·65	?	*	*	*	*
	Churchstoke ℳ	76	43	67·6	48·9	57·6	+ 1·0	109	0	4	0·73	+0·25	39·1	− 3·4	33	− 4
	Hereford ℳ	78	44	71·2	49·7	59·7	+ 0·9	124	0	2	0·20	−0·25	*	*	*	*
	Cirencester	73	44	69·4	50·1	59·1	+ 1·4	120	0	2	0·36	−0·17	48·1	+ 4·6	42	+ 5
	Oxford	79	47	69·9	51·9	60·3	+ 0·9	128	0	2	0·38	−0·10	45·2	+ 1·9	39	+ 1
5. ENGLAND, S.	London	76	46	71·4	51·9	61·0	+ 0·3	133	0	2	0·17	−0·29	28·1†	− 2·1†	33†	− 2†
	North Foreland	72	49	65·3	53·6	59·0	+ 1·5	119	0	2	0·14	?	*	*	*	*
	Dungeness	67	45	64·6	51·9	57·8	− 0·7	111	0	2	0·18	−0·16	*	*	*	*
	Hastings (St. Leonards)	68	50	66·4	53·7	59·6	+ 1·1	123	0	2	0·32	−0·05	52·0	+ 1·0	46	+ 1
	Southampton	77	48	72·5	51·4	61·2	+ 1·1	134	0	2	0·22	−0·18	59·1	+11·4	52	+10
	Hurst Castle	72	50	69·7	53·0	60·8	+ 1·4	132	0	1	0·25	−0·18	*	*	*	*
	Stowell ℳ	76	44	69·3	50·5	59·3	+ 0·6	121	0	2	0·07	−0·43	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	45	63·2	51·9	57·2	+ 1·0	106	0	6	0·64	−0·49	*	*	*	*
	Glasgow	70	46	65·4	51·5	58·0	+ 1·7	112	0	3	0·43	−0·16	41·8	+ 3·6	35	+ 5
	Ardrossan	67	47	63·6	52·0	57·4	+ 0·9	108	0	3	0·23	−0·27	*	*	*	*
	Glenlee Ꞩ	74	38	66·6	49·1	57·2	+ 1·2	106	0	3	0·20	−0·47	*	*	*	*
	Douglas (Isle of Man)	70	41	65·4	51·7	58·1	+ 2·0	113	0	3	0·83	+0·41	57·9	+ 7·3	49	+ 6
7. ENGLAND, N.W.	Stonyhurst	67	44	64·3	50·4	56·9	− 0·3	104	0	3	0·81	+0·11	53·0	+ 9·5	45	+ 8
	Blackpool ℳ	67	47	65·6	53·7	59·2	+ 1·3	120	0	4	0·82	+0·37	45·8	+ 1·8	39	+ 2
	Manchester (Prestwich)	67	45	65·8	50·3	57·5	+ 0·1	109	0	3	0·49	−0·17	34·9	?	30	?
	Liverpool Obsy. (Bidston)	67	52	65·0	54·3	59·3	+ 0·6	121	0	5	0·84	+0·40	*	*	*	*
	Llandudno ℳ	71	48	65·1	52·5	58·4	+ 0·4	115	0	3	0·72	+0·30	*	*	*	*
	Holyhead	67	49	63·7	52·4	57·7	+ 0·2	110	0	3	0·56	+0·14	*	*	*	*
8. ENGLAND, S.W.	Llandovery	82	42	72·9	48·4	59·8	+ 1·9	125	0	2	0·14	−0·51	*	*	*	*
	Pembroke	65	53	63·1	54·7	58·6	+ 1·8	116	0	1	0·04	−0·36	65·2	+10·5	57	+11
	Clifton	79	50	71·4	54·5	62·4	+ 3·8	143	0	2	0·10	−0·37	*	*	*	*
	Arlington (N. Devon)	76	42	67·9	48·9	57·7	+ 1·3	110	0	1	0·33	−0·37	*	*	*	*
	Cullompton ℳ	81	44	73·2	49·7	60·6	+ 1·4	130	0	0	—	−0·62	58·3	+13·0	51	+11
	Falmouth	72	50	67·5	53·8	60·2	+ 2·2	127	0	0	—	−0·60	71·2	+18·2	63	+18
	Plymouth	74	50	69·1	53·8	60·9	+ 1·2	132	0	0	—	−0·41	76·6	+29·4	68	+26
	Prawle Point	71	49	66·6	53·0	59·3	+ 2·4	121	0	1	0·01	−0·31	*	*	*	*
9. IRELAND N.	Malin Head	67	49	60·9	53·2	56·8	+ 1·5	104	0	4	0·45	?	*	*	*	*
	Londonderry	77	44	67·0	51·4	58·6	+ 1·2	116	0	4	0·73	+0·23	*	*	*	*
	Edenfel (Omagh)	73	42	63·0	48·3	55·1	− 0·8	92	0	5	0·91	+0·35	*	*	*	*
	Belmullet	63	?53	61·9	54·6	58·0	+ 1·4	112	0	5	0·75	+0·35	*	*	*	*
	Markree Castle	74	41	65·0	51·1	57·6	+ 2·2	109	0	5	0·52	−0·16	23·0	−15·2	19	−13
	Armagh	74	45	66·9	50·7	58·2	+ 1·6	113	0	4	0·61	+0·01	20·0	−20·4	17	−17
	Donaghadee	72	44	63·6	49·0	55·8	− 0·3	97	0	2	0·52	+0·12	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	73	52	68·0	56·6	61·8	+ 2·9	139	0	5	0·48	+0·13	40·3	− 3·7	34	− 3
	Parsonstown	74	47	68·0	53·4	60·2	+ 3·0	127	0	3	0·12	−0·36	26·7	−11·6	23	−12
	Kilkenny	74	49	68·6	53·1	60·3	+ 2·6	128	0	1	0·04	−0·46	*	*	*	*
	Roche's Point	68	50	65·6	54·3	59·6	+ 1·6	123	0	2	0·06	−0·64	*	*	*	*
	Valencia	68	44	63·6	53·3	58·1	+ 0·6	113	0	4	0·45	−0·43	26·5	−18·5	23	−16
	Killarney	72	43	66·3	51·4	58·3	+ 1·6	114	0	5	0·49	?	*	*	*	*
	Foynes	70	47	?65·6	?52·7	?58·7	? + 1·7	?117	0	3	0·18	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	56	66·1	57·7	61·6	+ 3·5	137	0	1	0·03	−0·37	63·4	?	56	?
	Jersey	71	48	67·7	53·7	60·2	+ 0·3	127	0	1	0·01	−0·38	80·3	+25·3	72	+23

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

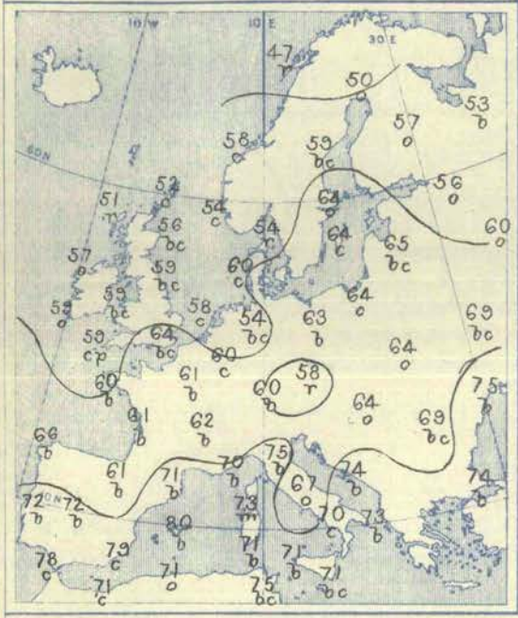
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) and the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

NOTE.—In Scotland N. the number of rainy days for the week ending June 20th, should have been Sumburgh Head 4, Glencarron 7, and Fort William 6.

Sunday, 21st June.

Temperature and Weather.

8 a.m.

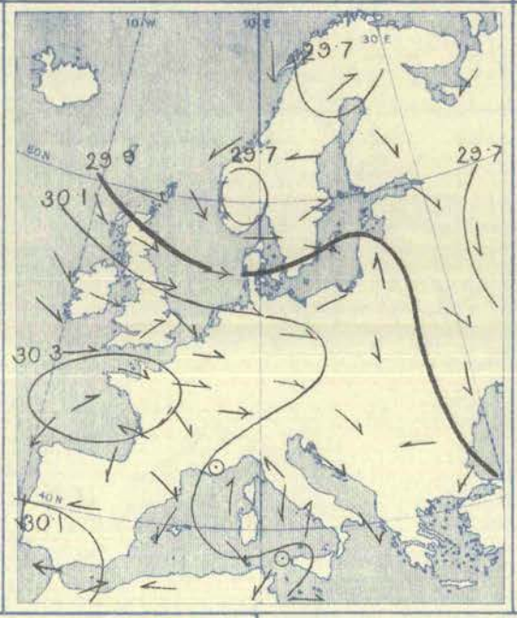


Weather in morning fine and bright over the Mediterranean, Spain, France, and the greater part of England; unsettled generally over central and northern Europe, Scotland, and the north of Ireland. Rain falling later in all the last-named districts, rather heavily over Germany and some of the Baltic stations, but slightly in Scotland; thunderstorms locally at Brest.

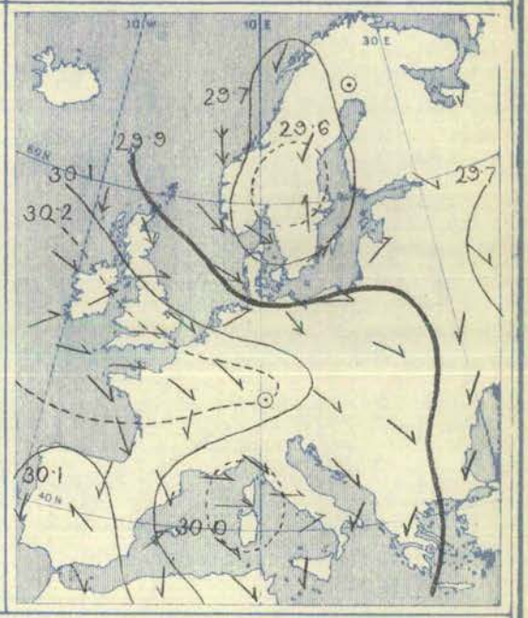
Temperature fallen a little, except over Scandinavia on the one hand, and south-eastern Europe on the other. Morning readings highest, 80° at Palma, 78° at San Fernando, and exceeding 70° at many of the Mediterranean stations, as well as in the south of Russia; exceeding 60° over the greater part of Russia, central Europe, the south of England, and the south of Finland. Lowest, 47° at Bodö, 50° at Haparanda, 52° at Sumburgh Head and Wick, 54° at the Scaw, Nairn, and Malin Head. Rising later to between 65° and 70° over the greater part of England, to 71° at Paris, 72° at Berlin, 82° at Nice, 86° at Perpignan and Cape Sicie, 88° at Brindisi and Florence.

Barometer and Wind.

8 a.m.



6 p.m.



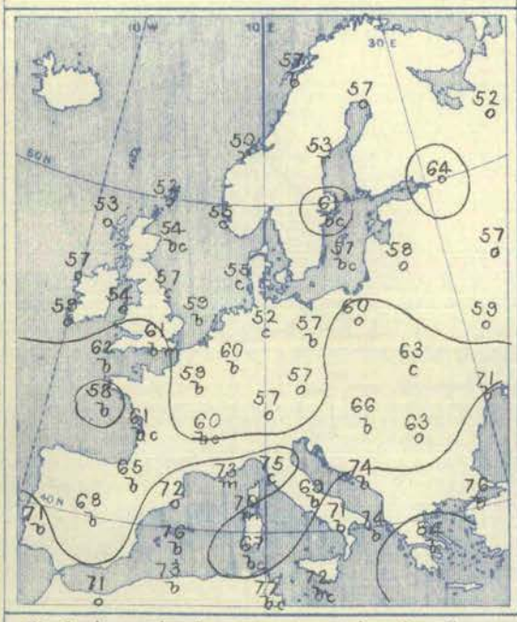
Wind (1) Westerly to North-Westerly in our Islands, and strong at the northern stations; Westerly over the North Sea; South-Westerly to Southerly over the south of Scandinavia, but Northerly on the north-west coast of Norway; (2) North-Westerly to Northerly over Austria and the south of Russia; (3) light and anticyclonic over France and the Bay of Biscay; Northerly to Easterly over the Spanish Peninsula. Strong to a gale from North-West on the Danish coasts and in the north-east of Scotland later, and backing northwards over the Bay of Biscay.

Barometer highest, 30·3 ins. and more to 30·2 ins. in an anticyclone covering the Bay of Biscay, France, the north of Spain, and the south and south-west of our Islands. Lowest, 29·7 ins. to 29·8 ins. over Scandinavia, northern and central Russia, and below 30·1 ins. over Italy, Sardinia, and Corsica, as well as in the south of Spain. Falling fast over Scandinavia later, where a complex series of depressions appeared—of no great depth.

Monday, 22nd June.

Temperature and Weather.

8 a.m.

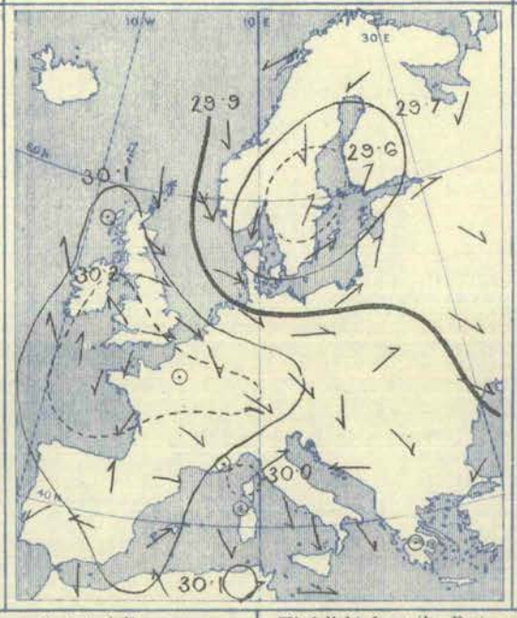


Weather in morning fine over western and southern Europe generally, but dull on our own extreme western and northern coasts. Fine in the south of Scandinavia, but cloudy or dull over the northern, central and eastern countries generally, with rain at Hernösand, Christiansund, and Breslau. Heavy rain falling later in the north-west of our Islands, and smaller amounts in Scandinavia, Denmark, and north Germany. Solar halo seen at Stornoway, and bright aurora at Wick.

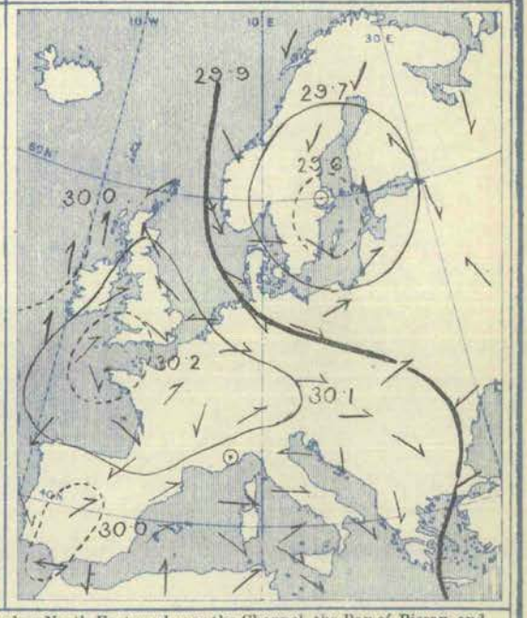
Temperature fallen in Sweden, Russia, Germany, and the north of France, but changed irregularly elsewhere. Morning readings highest, 84° at Athens, 77° at Sfax, and 76° at Palma and Constantinople, above 70° in many parts of southern Europe. Lowest, (1) 50° at Christiansund, and 52° at Sumburgh Head, Wick, and Aberdeen; (2) 52° at Archangel; (3) 52° at Cuxhaven. Rising during day to 65° and upwards in many parts of our islands, and reaching 72° in London; exceeding 75° in the south of France, and touching 86° at Perpignan. Succeeding night cold in the north of Scotland.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light from the Eastward or North-Eastward over the Channel, the Bay of Biscay, and the greater part of the Spanish Peninsula, and from the Southward or South-Eastward in Ireland. Light to moderate from the North-Westward over the eastern parts of Great Britain, and also over Germany, Austria, Italy, and the south of Russia; strong from the same quarter on the eastern shores of the North Sea, with a gale at Skudesnaes. Moderate to strong from the South-Westward over the Baltic and the south of Sweden, but North-Easterly in the extreme northern parts of Russia and Scandinavia. Subsequently backing to the Southward or South-Eastward in Scotland; shifting to the North-Westward in the west of France.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over all the more southern and south-western parts of Great Britain, with the north of France and the neighbouring parts of Germany. Lowest, 29·6 ins. and less in a well marked depression over Sweden. Depression subsequently moving eastward; new but shallow disturbance advancing to our extreme western coasts and barometer falling slightly over our islands generally.

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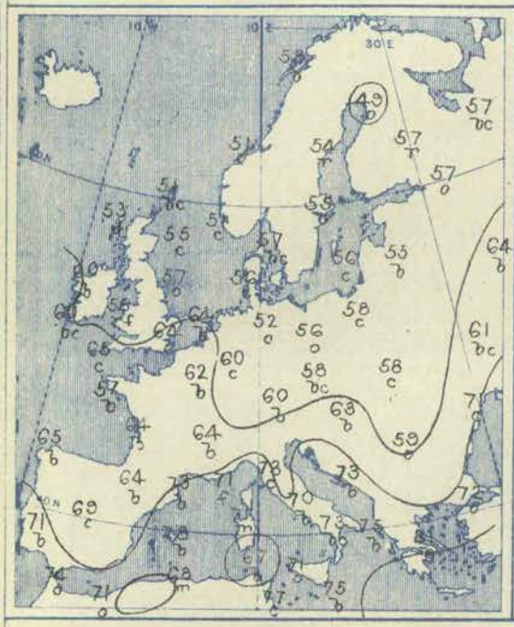
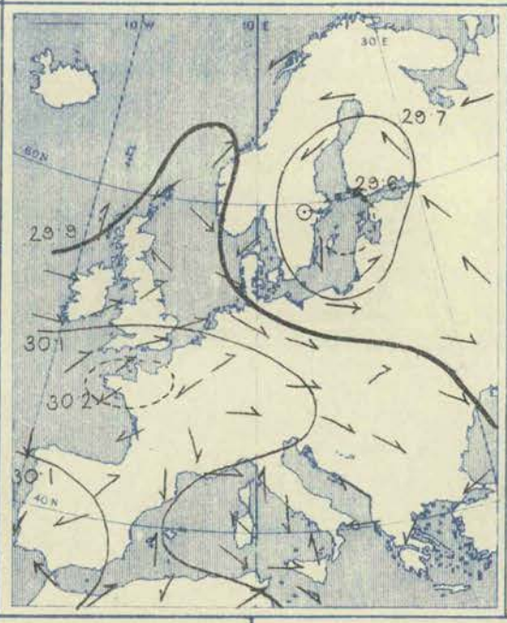
Tuesday, 23rd June.

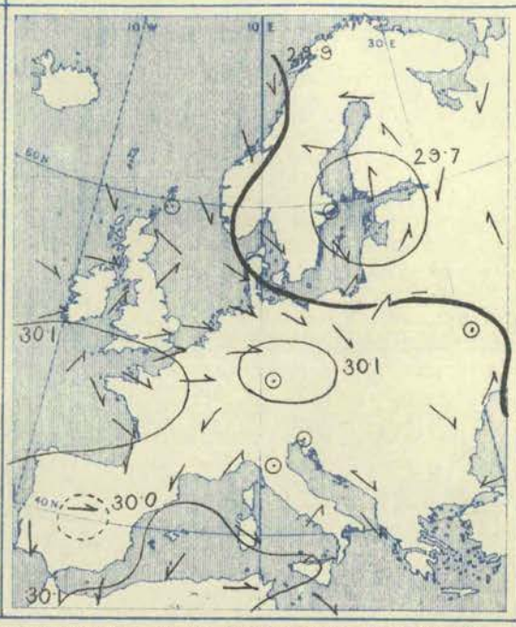
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the south of our Islands, as well as over France, Germany, the Netherlands, and the whole of southern Europe. Cloudy elsewhere, with rain over the northern and central parts of Great Britain, and also over Finland and the north of Sweden. Weather clearing later over central England, but rain or passing showers continuing at many of our northern stations, as well as in Sweden; rain falling also in Holland and North Germany. Lightning seen at Biarritz.

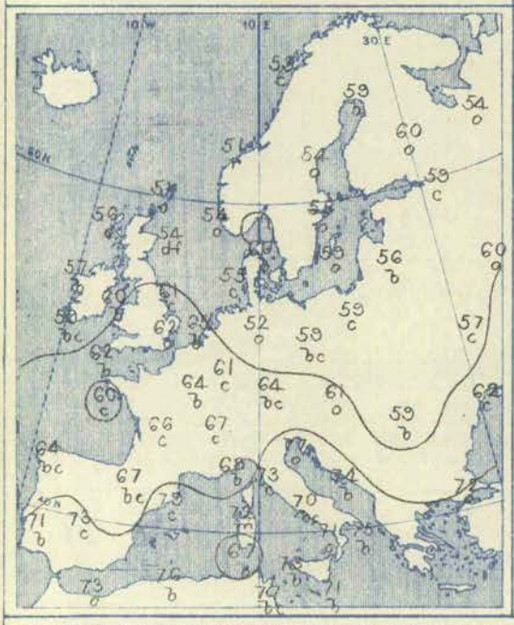
Temperature changed little and irregularly. Morning readings highest, 81° at Barcelona and Athens, 78° at Palma, 77° at Sfax, and 76° Patras, above 70° at most of the Mediterranean, Adriatic, and Spanish coast stations, and reaching 65° or more over the English Channel. Lowest, 49° at Uleaborg, 50° at Haparanda, and 51° at Christiansund, Skudesnaes and Sumburgh Head. Rising during day to 70° and upwards over the inland parts of England, and reaching 75° in London; exceeding 75° at most of the French stations, and touching 81° at Lyons, and 89° at Perpignan.

Wind light to moderate from the Westward in Ireland, and from the South-West over England and the Netherlands, but South-Easterly or Easterly in Scotland. Easterly or North-Easterly over the northern parts of Scandinavia, moderate to strong from the North-Westward over Denmark and the south of Scandinavia, and from the Westward in Germany; light from the South-Eastward over northern and central Russia. Northerly or North-Easterly over the greater part of France and Spain, but variable in Italy and the south of France. Subsequently shifting to the North-Westward in the west of France no important change occurring elsewhere.

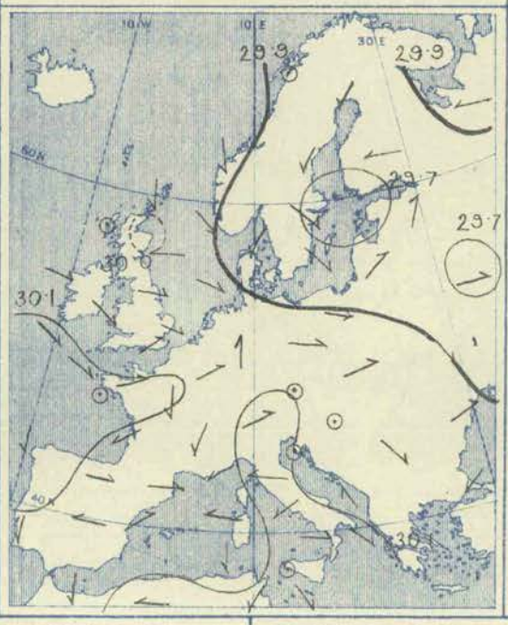
Barometer highest, 30·2 ins. and upwards over Bavaria, and also over the north of France; 30·1 ins. and upwards in an anticyclone covering the whole of France, the Netherlands, and the southern parts of our Islands and Germany, and spreading southwards over the north-east of Spain and Algeria. Lowest, 29·6 ins. and less in a depression over the northern parts of the Baltic. Small shallow disturbances passing eastwards across our Islands during day; barometer changing rather irregularly over western Europe.

Wednesday, 24th June.

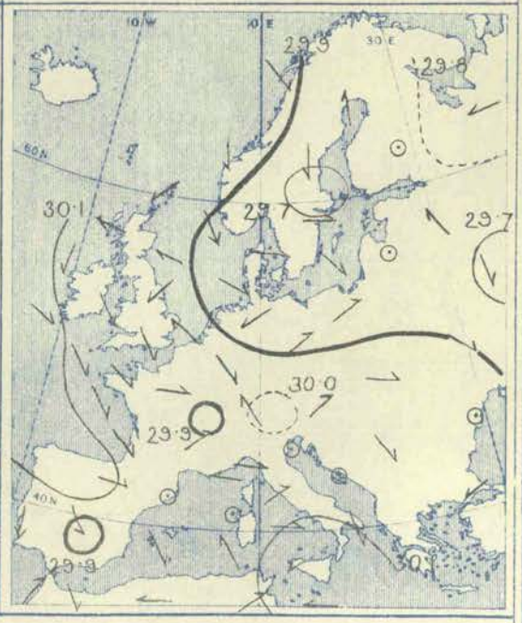
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery over the central and southern parts of England; dull over the greater part of Scotland, and also in the west of Norway, with rain in places; foggy in the Straits of Dover, as well as at Aberdeen. Fair or fine in most other parts of our Islands and the Continent, but dull at many of the Russian stations. Showers falling during day over the greater part of western Europe; thunderstorms occurring over the central and south-eastern parts of England, as well as at Lyons.

Temperature risen over the western, northern, and central countries; fallen or changed irregularly elsewhere. Morning readings highest, 79° at Barcelona, 77° at Trieste, Aumale, and Sfax, and 76° at Algiers; above 70° in many parts of southern Europe, and touching 65° on some parts of our own southern and eastern coasts. Lowest, 51° at Christiansund, Sumburgh Head, and Aberdeen, 52° at Wick and Cuxhaven, and 53° at Bodö. Rising during day to between 70° and 74° at several of the English stations, but remaining below 60° on the north-east coasts of Scotland. Exceeding 75° in France and Germany, and reaching 82° at Lyons, and 88° at Perpignan.

Wind light from the Westward (South-West to North-West) over the north-western, northern, and central parts of Europe generally, but Easterly or South-Easterly in the north of Scotland, and North-Easterly over the northern parts of Scandinavia. Light from between North and East over the greater part of France and Spain; variable in Italy. Subsequently veering to the North-Westward or Northward over nearly the whole of Ireland and England. Shifting also to the North-Westward in the west of France.

Barometer highest, 30·1 ins. and upwards in two irregularly shaped areas—one extending from the Atlantic over the north-west of Spain and the Bay of Biscay, the north of France, and the extreme south-west of our Islands, and the other spreading northwards from Algeria over Italy and south Germany. Lowest, 29·7 ins. and less in two depressions—one lying near Moscow, and the other over the Gulf of Finland and the neighbouring parts of the Baltic, and the Gulf of Bothnia. Small shallow disturbance forming over England during day, and moving south-eastwards.

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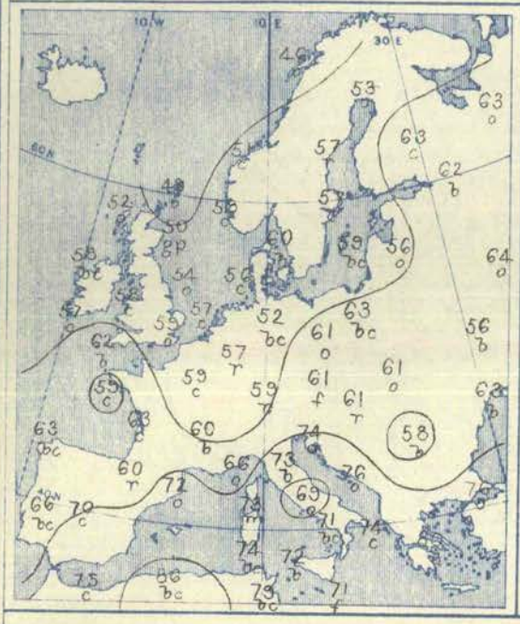
Thursday, 25th June.

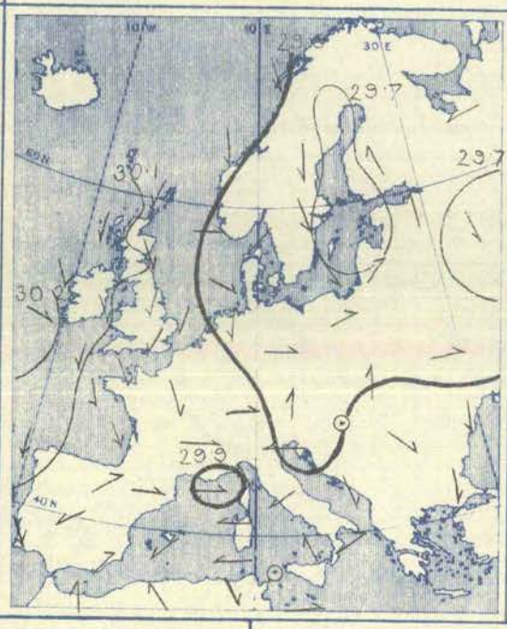
Temperature and Weather. 8 a.m.

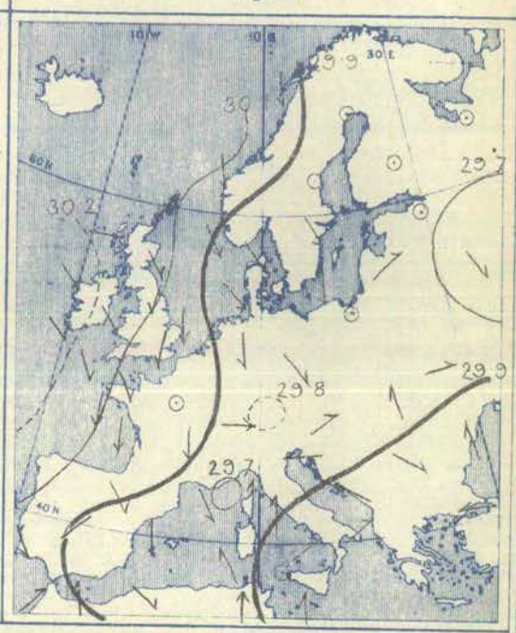


Weather in morning cloudy and changeable over western, northern, and central Europe generally, with rain in several isolated places. Fine over the greater part of Spain, Italy, and Russia. Showers falling in many parts of England during day, and considerable quantities of rain at some of the French, German, and Swedish stations; thunder occurring at Hurst Castle and Lyons, and lightning at Biarritz.

Temperature fallen in most of the western countries, but changed rather irregularly elsewhere. Morning readings highest, 86° at Algiers, 84° at Palma, 80° at Athens, and 79° at Sfax; above 70° at most of the Mediterranean and Adriatic stations, and above 60° over northern and central Russia. Lowest, 46° at Bodö, 49° at Sumburgh Head, 50° at Aberdeen, and 52° at Stornoway, Wick, and Cuxhaven. Daily maxima below 60° on many parts of our northern coasts, but thermometer exceeding 65° at several of the English and Irish stations. Reaching 70° or more in the west and south of France, and touching 75° at Lyons.

Barometer and Wind. 8 a.m. and 6 p.m.



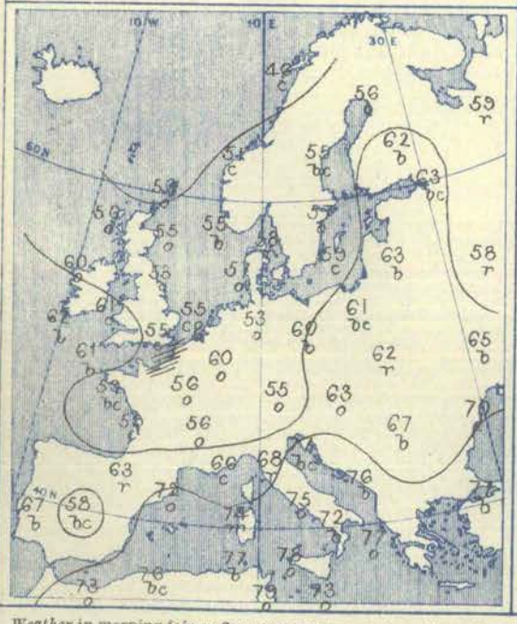


Wind light to moderate from the Northward or North-Westward over north-western Europe generally, but Easterly at some of the Scotch stations. Westerly over the southern parts of France, Germany, and Russia; South-Westerly over the Baltic provinces; Southerly over Finland. Light and variable over Spain, Italy, and Austria. No important change occurring over western Europe during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying to the south-westward of Ireland; 30·0 ins. and upwards in another system lying over south-eastern Europe generally. Lowest, 29·6 ins. and less in a depression over central Russia; 29·7 ins. and less in another system over the Gulf of Bothnia and the neighbouring parts of Finland and Sweden; 29·9 ins. and less in a shallow system over the Gulf of Genoa. Anticyclone to the south-westward of our Islands subsequently spreading eastwards, and barometer rising over north-western Europe generally.

Friday, 26th June.

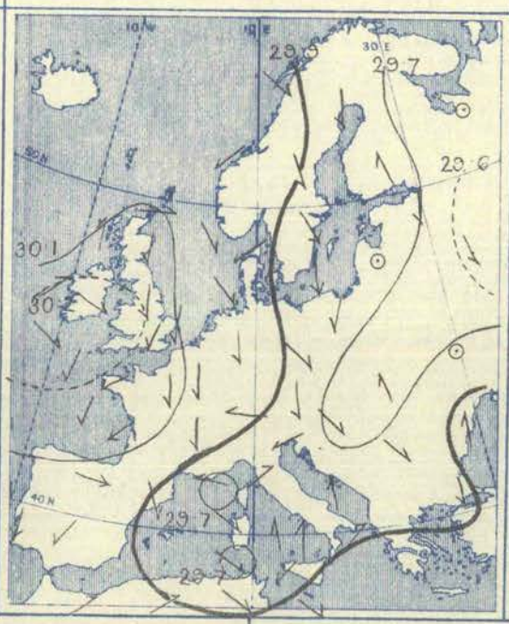
Temperature and Weather. 8 a.m.

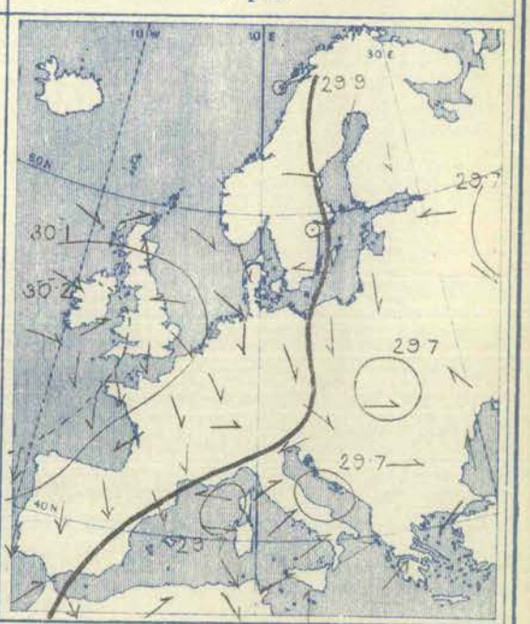


Weather in morning fair or fine over western and northern Europe generally, but dull in the extreme north and north-west of our Islands, and also in Denmark, with rain at Skagen. Dull over Italy and the southern parts of France and Germany, with rain at Florence, Biarritz, and Prague, as well as at some of the Russian stations. Fine in Austria, and also over the Spanish Peninsula. Slight rain falling later on our extreme north and north-west coasts. Very large quantities at Trieste and over northern Italy, and considerable amounts at Bilbao and Palermo.

Temperature risen in the west and north of our Islands, and also in many parts of Russia, Austria, and Italy; fallen in most other localities. Morning readings highest, 79° at Sfax, 78° at Palermo, and 77° at Trieste, Brindisi, Cagliari, and Constantinople. Lowest, (1) 46° at Bodö, 50° at Sumburgh Head, 51° at Christiansund, and 52° at Loughborough; (2) 52° at Cuxhaven and Le Mans. Rising during day to between 65° and 70° in many parts of the United Kingdom, and reaching 73° at Parsonstown. Exceeding 75° in the south of France, and reaching 81° at Lisbon, 84° at Algiers, 86° to 92° in the south of Italy.

Barometer and Wind. 8 a.m. and 6 p.m.



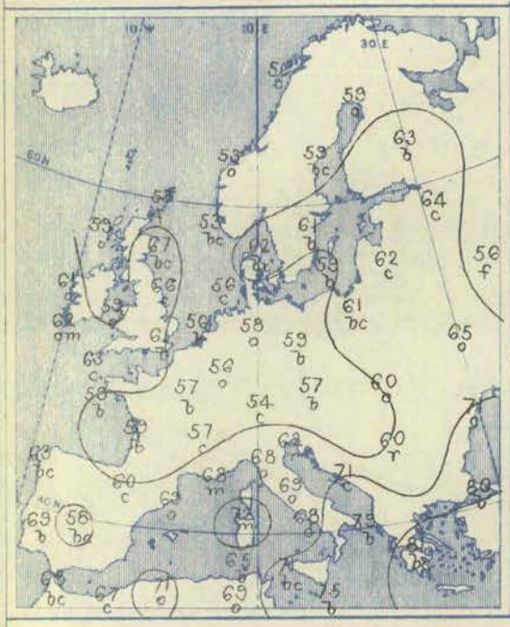


Wind light from the Southward or South-Westward on our extreme north-west coasts, but Northerly in the east of our Islands, as well as over the greater part of northern and central Europe. North-Easterly in the south of England, and also over the greater part of France and Spain, but Westerly in the south of France. Variable in Italy; Westerly or North-Westerly in Austria; Southerly in the extreme south of Russia. Subsequently veering to the Westward on our own north-west coasts; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards over Ireland and the greater part of England; 30·1 ins. and upwards in an anticyclone covering the whole of our Islands, the Bay of Biscay, and the greater part of France. Lowest, 29·6 ins. and less in a large shallow depression over central Russia; 29·7 ins. and less in two small systems lying over Sardinia and the Gulf of Genoa. Barometer falling slightly later on our western and northern coasts, and shallow depression appearing off the north of Scotland.

Saturday, 27th June.

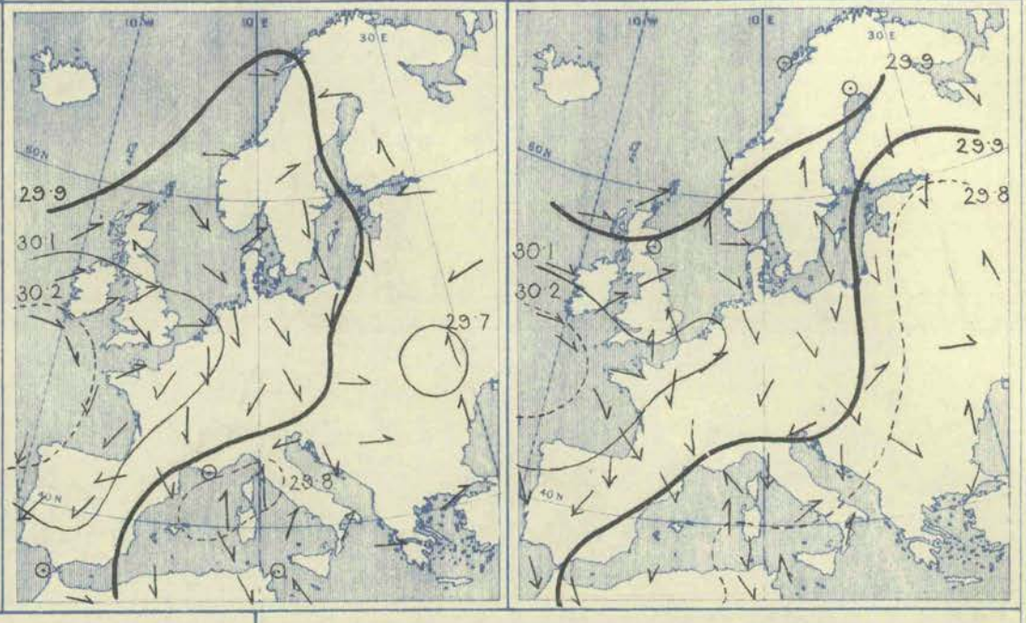
Temperature and Weather. 8 a.m.



Weather in morning fine over England, France, Germany, the Baltic, and Finland; dull and unsettled over Ireland, Scotland, Italy, and Russia; very rainy over south-eastern Europe. Some rain falling during the day all over Ireland and Scotland, as well as in many parts of Austria and northern Russia, and sky becoming overcast over England. Thunderstorm occurring at Kuopio; lightning seen at Nice.

Temperature rising over the British Islands. Morning readings highest, 81° at Athens, 80° at Constantinople, 79° at Brindisi, 71° at Lesina and Nicolaieff, 69° at Lisbon, 65° at Prawle Point, 64° to 60° over many parts of Finland, 65° to 67° over the eastern half of Scotland. Lowest, 50° at Bodö, 53° in the Shetland Isles and west of Norway. Rising later to between 70° and 79° over Great Britain, and to 75° at Berlin, and 81° at Lisbon; not touching 70° at Paris, nor exceeding 74° at the Helder.

Barometer and Wind. 8 a.m. 6 p.m.



Wind anticyclonic in direction and light to moderate in force over the whole of the British Islands and western Europe; Northerly moderate over the Baltic and Germany; North-Westerly over Austria-Hungary; Southerly light over the south of Russia; Easterly at Moscow and St. Petersburg, and also on the northern shores of the Mediterranean. Becoming cyclonic Westerly over Scotland later, but not blowing strongly.

Barometer highest, 30·2 ins. and more to 30·0 ins. in the eastern part of an anticyclone (irregular in form), stretching in from the Atlantic over the British Islands, France, and the North Sea. Lowest, below 29·7 ins. in a depression over the south-west of Russia; below 29·8 ins. in a complex system over the northern half of the Mediterranean, and below 29·9 ins. off the extreme north of Scotland. Depression approaching Scandinavia later from the westward; Russian disturbance moving south-eastwards to the Black Sea.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h ¬ hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week a large anticyclone still lay over the greater part of western Europe, the weather in the more northern and central countries being affected by depressions which moved south-eastwards across Scandinavia. Later on the anticyclone receded to the westward, while small depressions—subsidiary to the larger disturbances in the north—moved southwards over our Islands and the neighbouring parts of the Continent, the weather being showery over western Europe generally, with thunderstorms in many parts of England and France. After the middle of the week the anticyclone again spread eastwards over most of the western countries, but at the close of the time it was moving away to the south-westward, and depressions in the far north were beginning to occasion unsettled showery weather over all the more western and northern parts of the United Kingdom.

Over southern Europe the weather during the middle portion of the week was affected by small depressions which formed over the Mediterranean. These disturbances occasioned thunderstorms in many places, with heavy falls of rain in some parts of Austria and northern Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	45·5	+11·0	38	+ 10	SOUTHPORT	40·4	?	34	?
OSWALDKIRK (Yorkshire)	45·1	+ 9·2	38	+ 7	MANCHESTER (Oldham Road)	30·7*	?	26*	?
WORKSOP	32·7	- 2·4	28	- 3	COLWYN BAY	44·3	?	38	?
THURCASTON (Leicestershire)	33·7	- 4·1	29	- 4	TENBY	*		*	
MARGATE	42·6	+ 2·0	37	0	NEWQUAY	70·5	+17·5	62	+ 16
WESTBOURNE (Sussex)	48·6*	+ 1·4	43*	+ 1	TORQUAY	61·8*	+ 8·8	55*	+ 7
BRIGHTON	63·4	+11·6	56	+ 10	ARLEY COTTAGE (County Cavan)	18·9	-22·1	16	- 18
EASTBOURNE	53·1	+ 3·2	47	+ 2	GUERNSEY	74·6*	+19·1	67*	+ 18

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt., Lith. 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 27.] *Third Series.* WEEK ENDING SATURDAY, JULY 4TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 158.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	41	57·4	48·3	52·5	2 below	74	− 4	0	0	967	+228	305	−318
	1. SCOTLAND, EAST	70	41	62·5	48·2	54·8	1 below	90	− 6	0	0	1177	+250	408	−241
	2. ENGLAND, N.E.	74	44	64·9	51·1	57·5	0 (average)	109	+ 7	0	0	1198	+257	327	−222
	3. ENGLAND, EAST	77	41	69·0	50·8	59·3	0 (average)	121	+ 7	0	0	1349	+197	388	−229
	4. MIDLAND COUNTIES	76	43	66·5	51·7	58·6	0 (average)	116	+ 3	0	0	1442	+251	372	−247
	5. ENGLAND, SOUTH	78	46	69·2	53·5	60·8	1 above	132	+11	0	0	1510	+246	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	45	60·7	50·9	55·4	1 below	94	− 3	0	0	1269	+277	234	−228
	7. ENGLAND, N.W.	68	50	62·7	53·2	57·6	1 below	109	+ 2	0	0	1381	+329	201	−258
	8. ENGLAND, S.W.	77	46	66·4	54·5	60·1	1 above	127	+15	0	0	1557	+336	155	−206
	9. IRELAND, NORTH	72	44	62·2	51·7	56·6	0 (average)	102	+ 2	0	0	1397	+211	162	−233
	10. IRELAND, SOUTH	73	46	65·3	54·2	59·4	1 above	122	+13	0	0	1626	+363	89	−210
	—CHANNEL ISLANDS	72	55	65·9	57·8	61·6	2 above	137	+16	0	0	1795	+417	39	−109

Rainfall.

	DISTRICTS. (See p. 158.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	9	1 more	127	+ 7	27·8	+ 3·9
	1. SCOTLAND, EAST	5	4	2 less	97	0	10·4	− 3·7
	2. ENGLAND, N.E.	3	1	4 less	79	−12	7·4	− 4·1
	3 ENGLAND, EAST	3	1	4 less	83	− 5	8·9	− 2·5
	4. MIDLAND COUNTIES	4	3	2 less	79	− 8	8·7	− 4·1
	5. ENGLAND, SOUTH	4	4	1 less	74	− 9	7·8	− 5·0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	7	0 (average)	103	0	19·3	− 3·2
	7. ENGLAND, N.W.	6	6	0 (average)	94	+ 1	13·4	− 1·3
	8. ENGLAND, S.W.	4	3	3 less	78	−16	10·1	− 7·2
	9. IRELAND, NORTH	6	7	1 more	106	− 4	16·1*	− 0·6
	10. IRELAND, SOUTH	4	3	3 less	89	−11	13·1	− 5·4
	—CHANNEL ISLANDS	3	2	2 less	85	−16	7·6	− 7·1

Bright Sunshine.

	DISTRICTS. (See p. 158.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	20	−15	16	−13	590	− 63	25	− 2
	1. SCOTLAND, EAST	42	+ 4	34	+ 2	769	+ 33	32	+ 1
	2. ENGLAND, N.E.	47	+10	40	+ 9	752	+ 32	32	+ 2
	3 ENGLAND, EAST	44	0	38	0	854	+ 18	36	+ 1
	4. MIDLAND COUNTIES	38	− 2	33	− 2	792	+ 32	33	+ 1
	5. ENGLAND, SOUTH	41	− 5	36	− 5	868	− 1	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	31	−12	27	− 9	798	+ 26	33	+ 1
	7. ENGLAND, N.W.	31	− 9	27	− 7	763	+ 59	35	+ 3
	8. ENGLAND, S.W.	52	+ 2	46	+ 2	982*	+ 57	41	+ 2
	9. IRELAND, NORTH	29	− 9	25	− 7	720	− 16	30	− 1
	10. IRELAND, SOUTH	40	+ 1	35	+ 1	826	− 5	35	0
	—CHANNEL ISLANDS	55	+ 1	49	+ 2	1084	+ 35	46	+ 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was generally changeable with frequent falls of rain over the western and northern parts of the Kingdom, and occasionally similar conditions were experienced over the southern and eastern districts also.

Temperature did not differ materially from the mean. The highest of the maxima were recorded either at the commencement or towards the end of the week, and ranged from 78° in England S., and 77° in England E. and S.W., to 68° in England N.W., and to 64° in Scotland N. The lowest of the minima were registered on rather irregular dates over England and Ireland, but occurred on July 1st at most of the Scotch stations; they ranged from 41° in Scotland N. and E. and in England E., to 50° in England N.W., and to 55° in the Channel Islands.

Rainfall was less than the mean over the greater part of the Kingdom, but slightly exceeded it in Scotland N. and Ireland N., and just equalled it in Scotland W. and England N.W.

Bright Sunshine was somewhat deficient in most places, but slightly exceeded the normal in Scotland E., England N.E. and S.W., Ireland S., and the Channel Islands. The percentage of the possible amount of duration ranged from 49 in the Channel Islands, and 46 in England S.W., to 25 in Ireland N., and 16 in Scotland N.

Barometer and Wind.—At the commencement of the week an anticyclone extended from the Atlantic over all the more western parts of our Islands, causing light or moderate breezes from the North-Westward in all districts. By Tuesday, however, the anticyclone had receded south-westwards, and a large and somewhat deep depression had appeared over the north of Scotland. This caused the wind to increase considerably in force from the Westward. The system subsequently moved away east-south-eastwards over the North Sea to Denmark, the wind at the same time veering to the North-Westward, and decreasing in force. Towards the end of the week the anticyclone in the south-west was again extending to our south-western coasts, but depressions continued to approach our northern districts from the Atlantic.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 157 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	41	54·9	46·1	50·2	− 1·5	57	0	4	0·29	−0·16	*	*	*	*
	Stornoway	57	45	55·9	48·1	51·7	− 1·8	68	0	5	0·79	+0·13	26·6	−13·8	21	−12
	Wick	62	44	59·0	48·0	53·1	− 1·3	78	0	5	1·17	+0·67	*	*	*	*
	Glencarron S	60	44	55·7	47·2	51·2	− 3·5	64	0	6	1·25	+0·18	*	*	*	*
	Fort Augustus S	64	46	60·5	49·8	54·8	− 1·4	90	0	?5	0·40	−0·23	12·4	−15·6	10	−12
	Fort William S	61	48	58·5	50·3	54·1	− 2·1	85	0	6	1·13	+0·10	20·4	−16·9	17	−15
1. SCOTLAND, E.	Nairn	67	45	61·3	47·9	54·1	− 2·3	85	0	6	0·83	+0·40	*	*	*	*
	Aberdeen	67	41	62·6	48·9	55·3	− 0·6	93	0	6	0·51	+0·08	43·9	+ 1·5	36	+ 1
	Braemar S	63	43	58·4	45·7	51·6	− 2·2	67	0	5	0·30	−0·37	36·5†	− 2·0†	30†	− 2†
	Ochtertyre S	70	46	64·1	48·4	55·7	− 1·3	96	0	4	0·21	−0·41	*	*	*	*
	Leith	68	48	65·7	51·1	57·9	+ 0·6	111	0	7	0·22	−0·24	*	*	*	*
	Marchmont S	66	44	62·7	47·0	54·3	− 1·7	86	0	3	0·25	−0·36	49·3	+ 9·3	41	+ 8
2. ENGLAND, N.E.	Alnwick Castle	71	44	63·3	50·1	56·2	− 0·2	99	0	3	0·15	−0·31	*	*	*	*
	Durham	74	44	67·8	48·8	57·6	− 0·4	109	0	3	0·11	−0·37	53·7	+16·5	45	+13
	Shields	68	46	63·0	50·4	56·3	− 0·2	100	0	3	0·10	−0·38	*	*	*	*
	Scarborough M	70	47	63·4	51·0	56·8	− 1·1	104	0	4	0·08	−0·42	*	*	*	*
	York	72	47	67·4	52·1	59·2	+ 0·3	120	0	3	0·11	−0·42				
	Spurn Head	72	52	64·6	54·0	58·9	+ 0·2	118	0	3	0·06	−0·31	*	*	*	*
3. ENGLAND, E.	Hillington M	76	41	70·2	49·8	59·3	+ 0·1	121	0	4	0·10	−0·43	40·3	− 2·4	25	− 2
	Yarmouth	71	47	66·0	51·6	58·3	− 0·3	114	0	4	0·11	−0·37	*	*	*	*
	Geldeston	75	42	69·6	49·6	58·9	0·0	118	0	4	0·09	−0·35	44·9	− 1·4	39	− 2
	Cambridge	77	45	70·7	50·9	60·1	− 0·2	127	0	2	0·07	−0·47	49·1	+ 5·5	43	+ 5
	Rothamsted	74	46	68·5	52·0	59·7	+ 0·5	124	0	3	0·18	−0·36	40·6	− 4·4	35	− 4
4. MIDLAND COUNTIES	Harrogate M	67	44	64·6	51·0	57·3	− 0·6	107	0	2	0·15	?	37·4	?	32	?
	Bawtry (Hesley Hall)	73	?	67·6	?	?	?	?	0	4	0·11	−0·42	*	*	*	*
	Loughborough	76	47	68·3	52·4	59·8	− 0·1	125	0	3	0·30	−0·19	*	*	*	*
	Stamford (Ketton Hall)	?	?	?	?	?	?	?	0	4	0·34	−0·06	*	*	*	*
	Cheadle M	70	47	63·0	49·8	55·9	− 0·8	97	0	6	0·64	−0·07	*	*	*	*
	Shirley (near Solihull)	72	45	66·1	51·2	58·1	− 1·0	113	0	4	0·42	?	*	*	*	*
	Churchstoke M	69	43	65·0	50·6	57·3	+ 0·1	107	0	4	0·36	−0·12	37·6	− 3·4	32	− 4
	Hereford M	74	47	69·1	53·2	60·6	+ 1·2	130	0	3	0·15	−0·30	*	*	*	*
	Cirencester	73	44	67·9	51·7	59·2	+ 0·8	120	0	3	0·29	−0·27	43·7	+ 1·3	38	+ 1
	Oxford	72	49	67·7	54·0	60·4	+ 0·3	129	0	3	0·12	−0·39	42·6	0·0	37	0
5. ENGLAND, S.	London	77	47	71·3	53·3	61·7	+ 0·3	138	0	4	0·24	−0·23	29·0†	− 0·2†	34†	0†
	North Foreland	74	51	68·6	54·1	60·9	+ 2·2	132	0	3	0·50	?	*	*	*	*
	Dungeness	70	46	67·1	52·6	59·4	− 0·1	122	0	3	0·21	−0·15	*	*	*	*
	Hastings (St. Leonards)	72	47	67·0	51·7	58·8	− 0·5	118	0	5	0·57	+0·18	34·5	−15·7	31	−13
	Southampton	78	50	73·3	54·5	63·3	+ 2·5	149	0	4	0·19	−0·26	49·5	+ 2·5	44	+ 3
	Hurst Castle	77	51	69·0	56·0	62·1	+ 2·1	141	0	4	0·36	−0·09	*	*	*	*
	Stowell M	73	48	68·0	52·4	59·7	+ 0·7	124	0	5	0·44	−0·07	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	45	59·1	49·4	53·9	− 2·9	83	0	6	1·37	+0·28	*	*	*	*
	Glasgow	63	46	59·9	50·4	54·8	− 2·1	90	0	4	0·43	−0·18	33·1	− 3·9	28	− 2
	Ardrossan	64	49	61·3	52·0	56·3	− 0·8	100	0	5	0·56	+0·05	*	*	*	*
	Glenlee S	64	47	60·8	50·9	55·5	− 1·2	95	0	5	0·66	−0·04	*	*	*	*
	Douglas (Isle of Man)	70	50	62·4	51·8	56·7	+ 0·2	103	0	6	0·48	+0·04	29·0	−20·0	25	−17
7. ENGLAND, N.W.	Stonyhurst	62	50	60·7	51·5	55·7	− 2·1	96	0	6	0·93	+0·17	41·8	− 0·2	36	0
	Blackpool M	65	50	63·5	53·8	58·3	− 0·4	114	0	6	0·61	+0·15	26·5	−16·5	23	−14
	Manchester (Prestwich)	66	50	62·5	51·2	56·5	− 1·5	102	0	6	0·81	+0·14	24·9	?	21	?
	Liverpool Obsy. (Bidston)	65	52	62·6	53·9	58·0	− 1·4	112	0	6	0·47	0·00	*	*	*	*
	Llandudno M	68	52	63·9	55·0	59·1	+ 0·4	120	0	6	0·35	−0·10	*	*	*	*
	Holyhead	66	51	63·0	53·6	58·0	− 0·2	112	0	5	0·32	−0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	73	46	68·7	52·7	60·1	+ 1·7	127	0	5	0·44	−0·24	*	*	*	*
	Pembroke	64	52	61·3	55·3	58·2	+ 0·7	113	0	3	0·22	−0·18	52·2	− 0·8	45	0
	Clifton	73	53	67·5	55·9	61·3	+ 1·9	135	0	4	0·41	−0·07	*	*	*	*
	Arlington (N. Devon)	65	50	63·9	52·0	57·5	+ 0·1	109	0	4	0·60	−0·18	*	*	*	*
	Cullompton M	73	46	69·8	53·2	60·9	+ 0·8	132	0	4	0·29	−0·39	45·5	+ 1·8	40	+ 1
	Falmouth	68	53	65·9	56·1	61·0	+ 2·3	133	0	3	0·04	−0·60	53·9	+ 1·9	48	+ 3
	Plymouth	69	51	66·7	55·7	60·8	+ 0·5	132	0	3	0·09	−0·36	50·2	+ 4·0	45	+ 4
	Prawle Point	77	49	67·7	54·7	60·8	+ 3·1	132	0	3	0·13	−0·29	*	*	*	*
9. IRELAND N.	Malin Head	60	51	58·1	52·6	55·2	− 0·6	92	0	7	1·09	?	*	*	*	*
	Londonderry	67	50	62·5	51·1	56·4	− 1·5	101	0	7	1·16	+0·64	*	*	*	*
	Edenfel (Omagh)	63	44	61·1	50·4	55·4	− 1·1	94	0	6	0·64	+0·06	*	*	*	*
	Belmullet	63	52	60·9	53·9	57·2	0·0	106	0	5	0·55	+0·08	*	*	*	*
	Markree Castle	70	49	62·8	52·2	57·1	+ 1·2	106	0	7	0·60	−0·08	23·9	−12·1	20	−10
	Armagh	68	47	64·3	50·9	57·1	− 0·1	106	0	6	0·66	−0·01	27·6	−10·6	24	− 9
	Donaghadee	70	50	63·9	51·9	57·5	+ 0·8	109	0	6	0·59	+0·15	*	*	*	*
	Edgeworthstown	72	48	63·8	50·2	56·5	− 1·9	102	0	4	0·33	−0·21	*	*	*	*
10. IRELAND, S.	Dublin	73	54	66·9	55·0	60·3	+ 1·1	130	0	5	0·27	−0·11	44·6	+ 3·6	38	+ 4
	Parsonstown	70	51	65·6	54·0	59·4	+ 1·7	122	0	4	0·25	−0·22	36·6	+ 1·2	32	0
	Kilkenny	72	46	67·0	52·4	59·2	+ 0·8	120	0	2	0·21	−0·31	*	*	*	*
	Roche's Point	71	52	66·6	55·0	60·4	+ 1·9	129	0	2	0·07	−0·61	*	*	*	*
	Valencia	65	54	62·9	55·3	58·8	+ 0·8	118	0	5	0·43	−0·50	39·7	− 2·0	35	− 1
	Killarney	99	50	64·8	52·6	58·3	+ 1·1	114	0	4	0·39	?	*	*	*	*
	Foynes	68	54	63·6	55·3	59·2	+ 1·8	120	0	3	0·28	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	56	65·7	58·0	61·6	+ 2·9	137	0	2	0·03	−0·39	54·9	?	49	?
	Jersey	72	55	66·0	57·6	61·5	+ 0·9	137	0	3	0·38	0·00	54·5	+ 0·9	49	+ 1

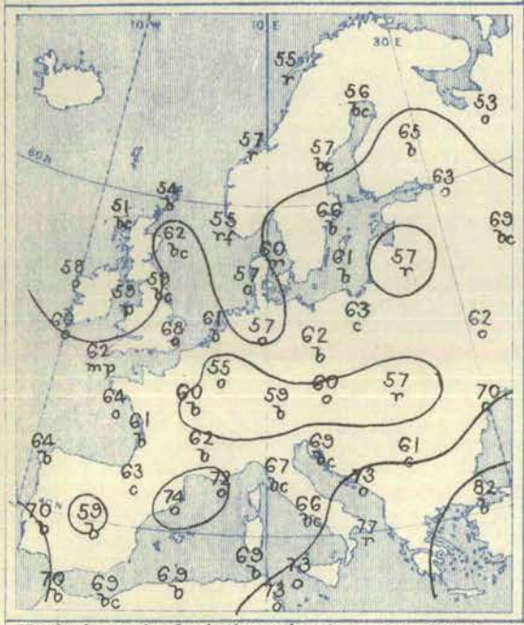
Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) a the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 28th June.

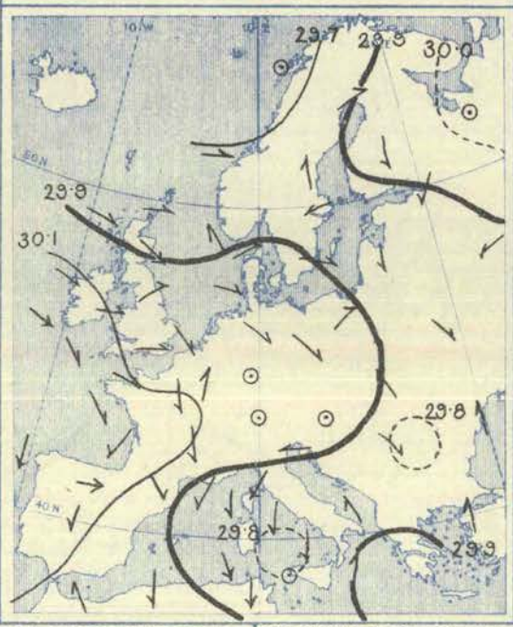
Temperature and Weather. 8 a.m.

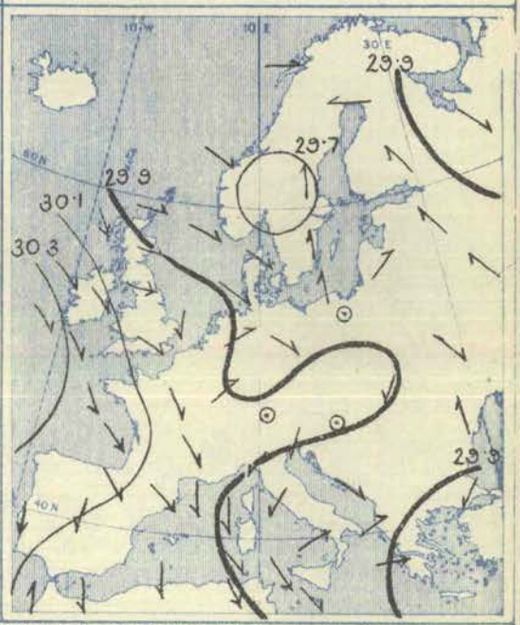


Weather in morning fine in the north and east of our Islands, and also over the greater part of the Continent, but rainy in the west of Norway, and dull in many parts of Russia and southern Italy, with rain at Brindisi. Cloudy or dull over the west and south of our Islands, with showers in Wales and the south-west of England. Showers falling later in Scotland, as well as in the south-east of England, with a thunderstorm at Dungeness. Rain occurring also in several parts of France and Germany, and thunder heard at Paris.

Temperature fallen in the west and north of our Islands, but risen in most other localities. Morning readings highest, 82° at Constantinople, 77° at Brindisi, 74° at Barcelona, and 73° at Lesina, Palermo, and Sfax; above 65° over southern and eastern Europe generally, and also in the south and east of England. Lowest, (1) 51° at Stornoway, and 54° at Sumburgh Head; (2) 54° at Belfort, and 55° at Brussels and Le Mans. Rising during day to 75° and upwards over the southern parts of England and France; exceeding 80° over Italy and the Spanish Peninsula; reaching 86° at Cagliari and Palermo, and 88° at Malta.

Barometer and Wind. 8 a.m. 6 p.m.



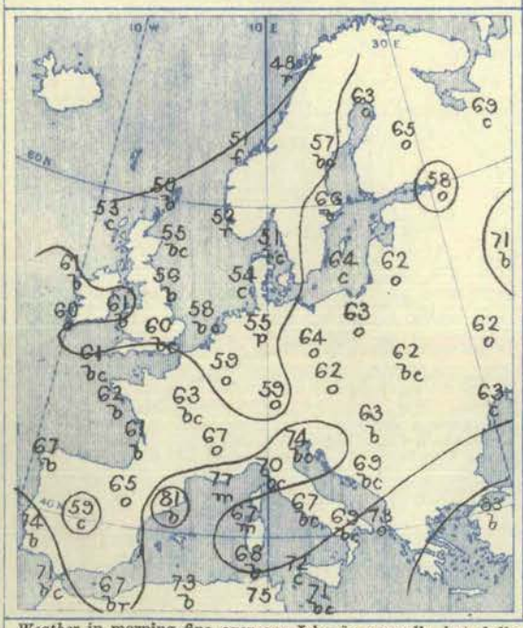


Wind light to moderate from the Westward or North-Westward over our Islands and the west of France; light from the South-Westward over the Netherlands, Denmark, and the greater part of Scandinavia. Northerly or North-Easterly over the northern parts of Russia; variable in Austria and the south of Russia; Northerly in Italy; North-Easterly over the Spanish Peninsula. Subsequently increasing to a strong breeze from the Westward or North-Westward in the northern parts of our Islands; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the extreme south-west of our Islands. Lowest, 29·7 ins. and less in a large shallow depression lying off the west of Norway; 29·8 ins. and less in two other systems lying respectively over Wallachia, and between the Italian and Sardinian coasts. Anticyclone in south-west subsequently spreading north-eastwards; Norwegian depression moving southwards to the southern parts of Scandinavia; disturbances over the Mediterranean and south-eastern Europe gradually filling up.

Monday, 29th June.

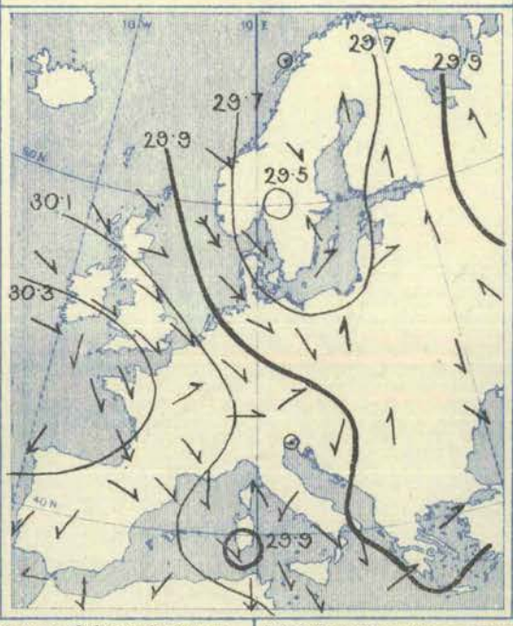
Temperature and Weather. 8 a.m.

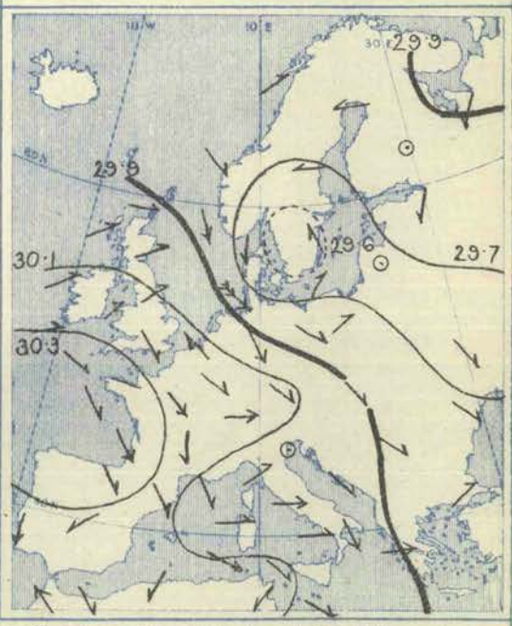


Weather in morning fine over our Islands generally, but dull at some of the north-western stations, with showers at Malin Head. Fine over southern and eastern Europe as a whole, and also in Sweden, but dull and unsettled over the western and central parts of the Continent; rain falling in Norway, and also at Belfort, and passing showers at Cuxhaven. Dull, showery weather setting in later over the north of our Islands; rain falling also in most parts of northern and eastern Europe—heavily in the south of Russia.

Temperature fallen in our Islands and the northern parts of the Continent, but risen in most other localities. Morning readings highest, 83° at Constantinople, 81° at Barcelona, and 77° at Toulon; above 70° at many of the Mediterranean and Spanish coast stations, and also over central Russia, and very little below it in the extreme north of Russia. Lowest, 48° at Bodö, 50° at Sumburgh Head, 51° at Christiansund, and 52° at Skudesnaes. Rising during day to between 65° and 70° in many parts of the United Kingdom. Exceeding 75° in the south of France, and exceeding 80° over Italy and the Spanish Peninsula; the highest reading of all being 90° at Lisbon.

Barometer and Wind. 8 a.m. 6 p.m.





Wind North-Westerly over western Europe generally, and also at most of the Italian stations; strong to a gale in force on the eastern shores of the North Sea, but light to fresh elsewhere. Light from the South or South-West over eastern Germany and the Baltic, and from the South or South-East over northern and central Russia; variable in the south of Russia. Easterly or North-Easterly over the Spanish Peninsula. Subsequently backing to the South-West in the western and northern parts of our Islands, and to the west in the south of England; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, the north-west of France, and the south-western parts of the United Kingdom. Lowest, 29·6 ins. and less in a large depression over Sweden; 29·9 ins. and less in a shallow disturbance over Sardinia. Swedish depression subsequently moving southwards; new disturbance beginning to approach our own northern coasts from the westward.

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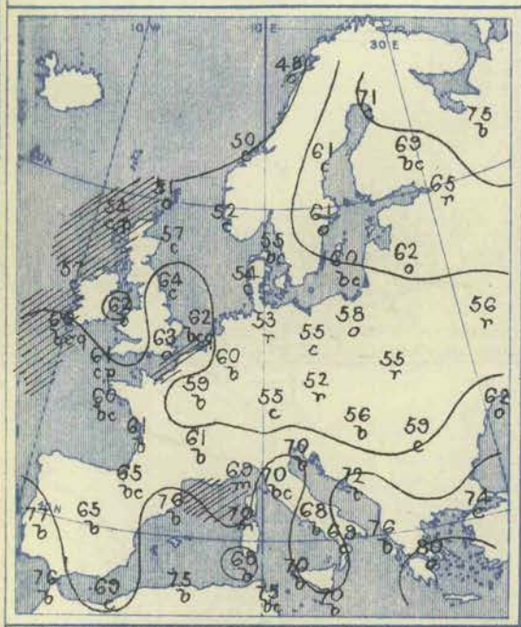
Tuesday, 30th June.

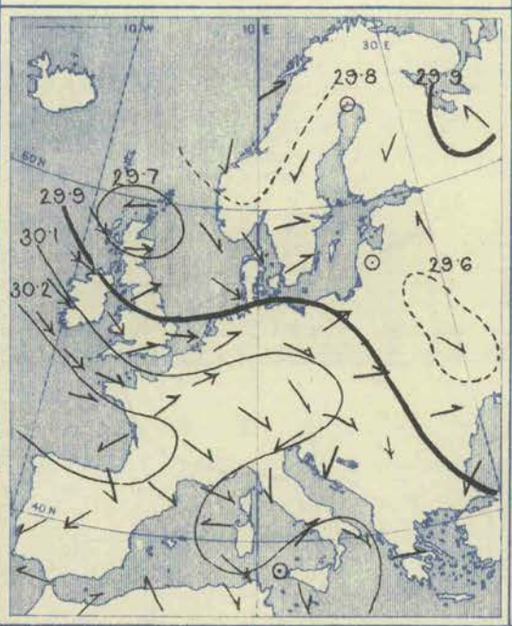
Temperature and Weather.

8 a.m.

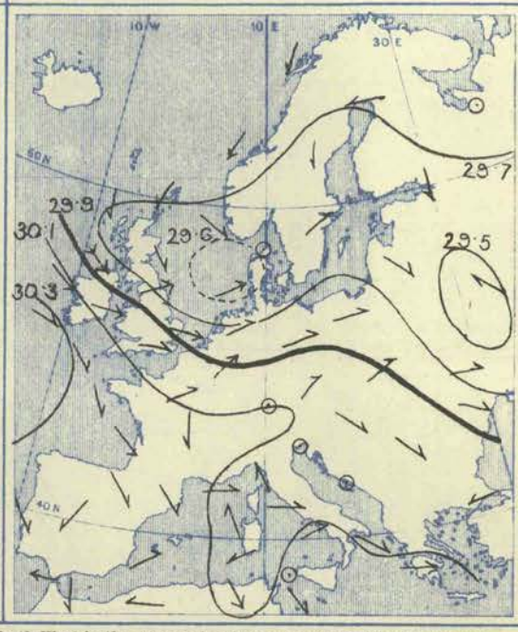


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and showery over our Islands and the North Sea; dull over northern and central Europe generally, with rain at several of the Dutch, German, and Russian stations. Fine and bright in most of the southern countries, but dull in Greece. Showers falling during day in all parts of north-western Europe, and a thunderstorm, with heavy rain, occurring at Cuxhaven. Rain falling also in Russia—heavily at Kiev.

Temperature risen a little in the eastern parts of Great Britain, but fallen in nearly all other parts of Europe. Morning readings highest, (1) 80° at Athens, 79° at Oporto, 77° at Lisbon, and 76° at Barcelona and Brindisi; (2) 75° at Archangel, and 71° at Ulcaborg. Lowest, (1) 48° at Bodö, 50° at Christiansund and Faerder, and 51° at Sumburgh Head; (2) 52° at Warsaw, Breslau, and Prague. Remaining below 60° all day on our extreme north and north-west coasts, but rising to between 70° and 73° in the south of England. Exceeding 75° in the south of France; exceeding 80° over Italy and the Spanish Peninsula, and reaching 91° at Lisbon.

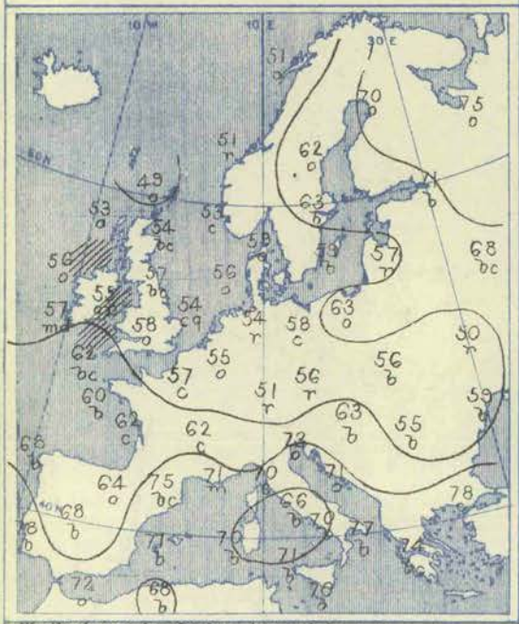
Wind fresh to strong from the North-West in the west and extreme north of our Islands, but from the West or South-West on our southern and eastern coasts, and also over the Netherlands. Light from the North-East over Finland and the central parts of Scandinavia; North-Westerly over the south of France, Denmark, Germany, and Austria; Westerly in the south of Russia. Variable in Italy; light from the Northward (North-West to North-East) over the southern parts of France; fresh from the North-East in Spain. Subsequently increasing to a strong gale from the North-West in the north of Ireland; veering to the North in the north of Scotland.

Barometer highest, 30·3 ins. and upwards in an anticyclone stretching from the Atlantic over the Bay of Biscay to the west of France. Lowest, 29·6 ins. and less in a very shallow depression over the southern parts of Russia; 29·7 ins. and less in a well-marked disturbance over the north and east of Scotland. Russian depression subsequently moving slowly northwards; Scotch disturbance travelling in an east-south-easterly direction across the North Sea.

Wednesday, 1st July.

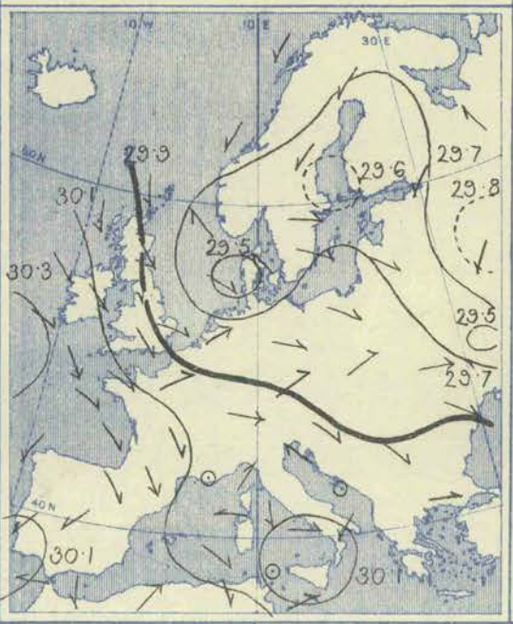
Temperature and Weather.

8 a.m.

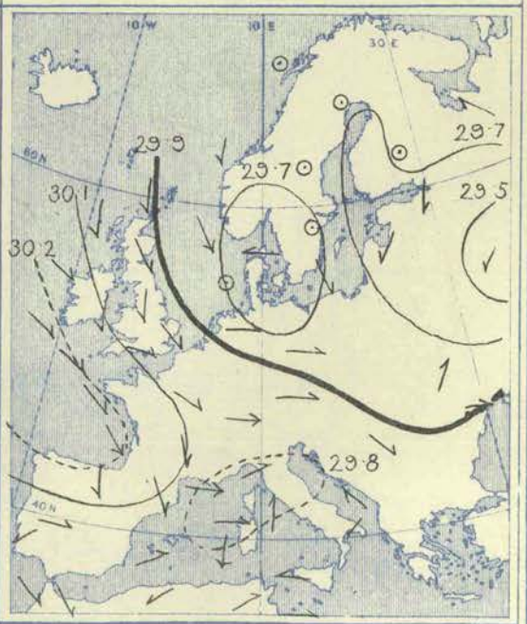


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over the greater part of western, northern, and central Europe, with showers at some of our own northern stations, and with steady rain in several parts of Germany and Russia, as well as at Christiansund. Fine over southern Europe and the Mediterranean. Showers falling later in many parts of the United Kingdom, and considerable amounts of rain over Germany, the Netherlands, and the central parts of Russia; thunderstorm occurring at Dungeness in afternoon.

Temperature fallen in Great Britain, the Netherlands, and the north of France, and also in the south of Russia; changed irregularly elsewhere. Morning readings highest, (1) 78° at Lisbon and Constantinople, and 77° at Palma, Brindisi, and Sfax; (2) 75° at Archangel, and 71° at St. Petersburg. Lowest, (1) 49° at Sumburgh Head, and 51° at Bodö and Christiansund; (2) 51° at Munich, and 54° at Cuxhaven, Münster, and Le Mans. Daily maxima below 60° at most of our own northern stations, and very little above 65° even in the extreme south; thermometer exceeding 70° in Sweden, and reaching 81° at Haparanda. Exceeding 80° over Italy and the Spanish Peninsula, and reaching 93° at Madrid and San Fernando.

Wind moderate to strong from the North-West over the greater part of our Islands and France, and from the West or South-West over Germany and the Netherlands; light from the East over northern Russia; from the North-East at most of the Scandinavian stations, and from the Northward in the north of Scotland. Variable in Austria and Italy; North-Easterly over the Spanish Peninsula. Subsequently falling light on most of our own coasts, and beginning to back to the Westward in the extreme west.

Barometer highest, 30·2 ins. and upwards in an anticyclone stretching from the Atlantic over the south-west of Ireland, the Bay of Biscay, the west of France, and the north of Spain. Lowest, 29·5 ins. and less in two depressions—one lying over Denmark, and the other over the south of Russia, near Kharkov; 29·6 ins. and less in a shallow system over the southern part of the Gulf of Bothnia. New disturbance beginning to approach our extreme west coasts in evening.

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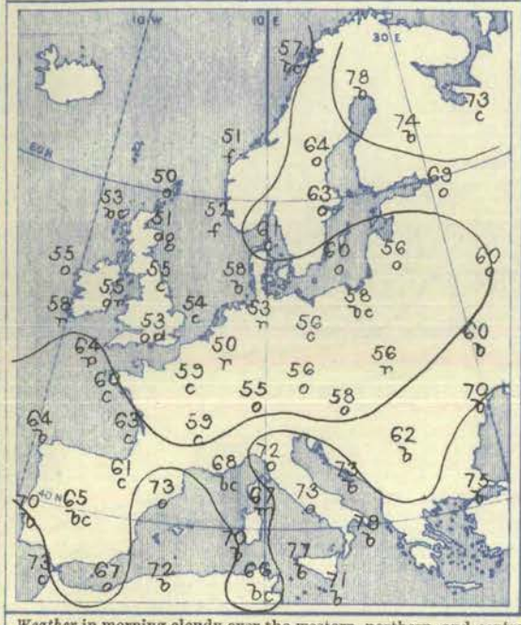
Thursday, 2nd July.

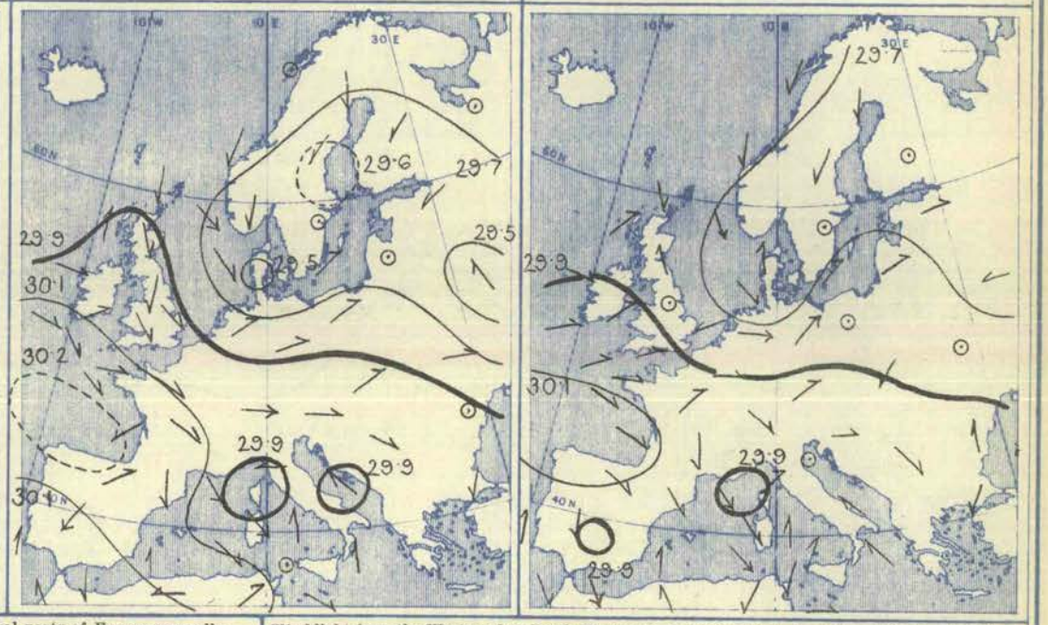
Temperature and Weather. 8 a.m.



Weather in morning cloudy over the western, northern, and central parts of Europe generally, with rain at several of our own western and southern stations, and also at Brussels, Cuxhaven, and Lemberg. Fine in the north-west of Scotland, as well as in Finland and the north of Scandinavia; fine also over Spain and the southern parts of France, Italy, and Russia. Considerable amounts of rain falling later in Sweden, Germany, and the east of France, and thunder occurring at Hernösand.

Temperature fallen in most places, but risen in the north of Scandinavia, as well as in Italy and the south of Russia. Morning readings highest, (1) 81° at Oporto, 79° at Brindisi, and 78° at Palma; (2) 78° at Haparanda, 74° at Kuopio, and 73° at Archangel. Lowest, (1) 50° at Sumburgh Head and Wick, and 51° at Christiansund, Nairn, and Aberdeen; (2) 50° at Brussels, and 51° at Münster. Daily maxima below 65° at most of our own southern stations, but thermometer reaching 66° in London and at Leith, 67° at Loughborough, and 69° at York. Exceeding 80° over Spain and the southern parts of France and Italy, as well as in the north of Sweden; the highest reading at any European station being 91° at Haparanda.

Barometer and Wind. 8 a.m. and 6 p.m.

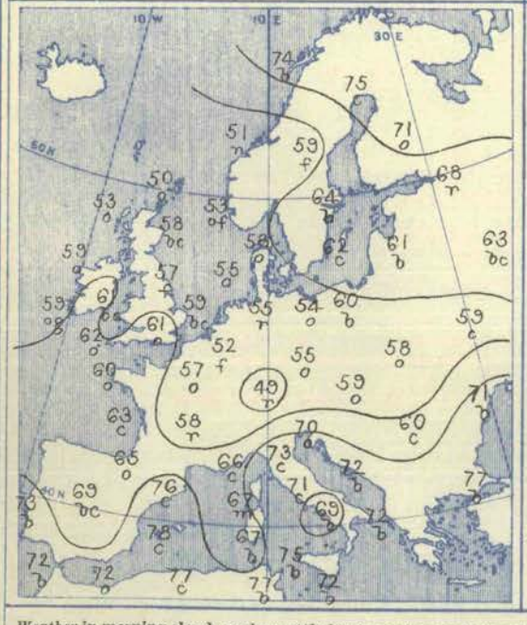


Wind light from the Westward or South-Westward in Ireland and the west of Scotland, and from the Southward in the Hebrides. Light to moderate from the North-West over the North Sea and the eastern parts of Great Britain, as well as in France and the Netherlands; Westerly or South-Westerly over Germany, and the west and south of Russia; Northerly or North-Easterly over the greater part of Scandinavia. Variable in Italy; fresh from the East or North-East over the Spanish Peninsula. Shifting later to the Eastward over the eastern parts of Great Britain; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay. Lowest, 29·5 ins. and less in two well-marked depressions—one lying over Denmark, and the other over central Russia; 29·6 ins. and less in a shallow system over the southern parts of the Gulf of Bothnia; 29·9 ins. and less in three other systems lying respectively off the north-west of Scotland, over the Gulf of Genoa, and over the central parts of the Adriatic. Danish depression partially filling up later; Scotch disturbance spreading south-eastwards.

Friday, 3rd July.

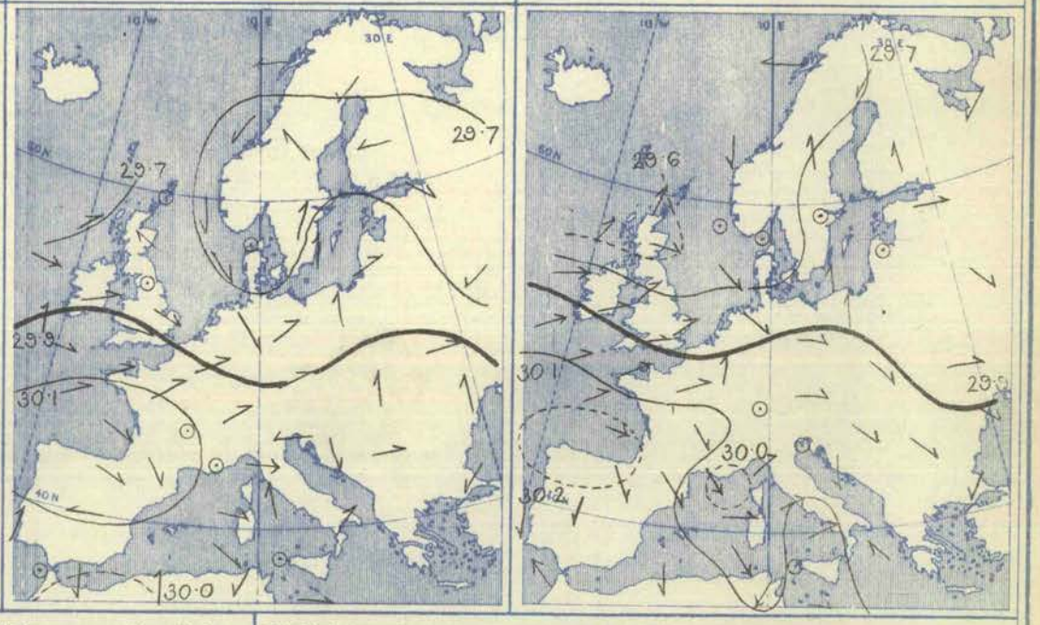
Temperature and Weather. 8 a.m.



Weather in morning cloudy and unsettled over western and central Europe generally, with fog or rain in many isolated places; fine in the north-west of England and the north-east of Scotland, as well as at several of the Scandinavian and Baltic stations. Fine also over southern Europe and the Mediterranean. Rain falling during day in all the more western and central countries—heavily in some parts of Germany and Austria.

Temperature risen in our Islands, and also in the north of Norway; changed rather irregularly elsewhere, but fallen in most places. Morning readings highest, (1) 78° at Palma, 77° at Constantinople and Sfax, and 76° at Barcelona; (2) 77° at Uleaborg, 75° at Haparanda, and 74° at Bodö. Lowest, (1) 49° at Munich, 51° at Münster, and 52° at Brussels; (2) 50° at Sumburgh Head, and 51° at Christiansund. Rising during day to 70° and upwards at most of the English stations, and reaching 77° in London and at Cambridge. Exceeding 85° over Spain and southern Italy, and also in Lapland; reaching 91° at Haparanda, and 93° at Madrid and Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light to moderate from the West or South-West over our Islands and the more central parts of the Continent; Southerly in Sweden; Easterly over the more northern parts of Finland and Scandinavia; North-Easterly or Northerly in the west of Norway. Variable over the Spanish Peninsula and the southern parts of France; South-Westerly at most of the Italian stations. Subsequently increasing to a strong breeze from the Westward on our extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the Bay of Biscay, the south-western parts of France, and the northern and central parts of Spain. Lowest, 29·7 ins. and less in a depression lying off the north-west of Scotland, and also in a large shallow area over Scandinavia, Denmark, and northern Russia. Scotch depression spreading eastwards and south-eastwards during day; barometer falling at all our more eastern stations, but rising again in the west.

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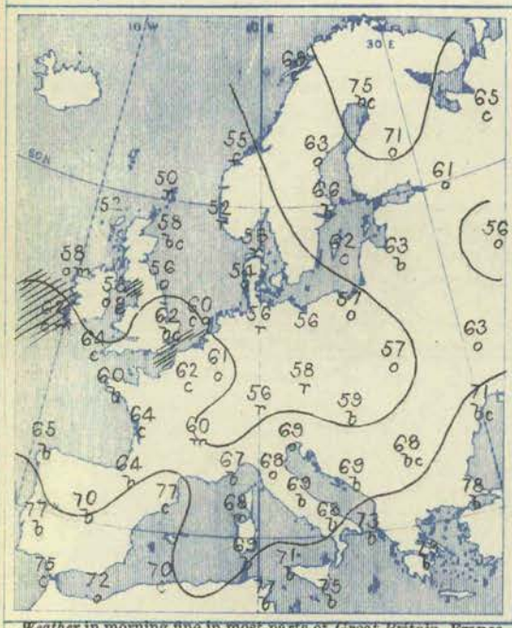
Saturday, 4th July.

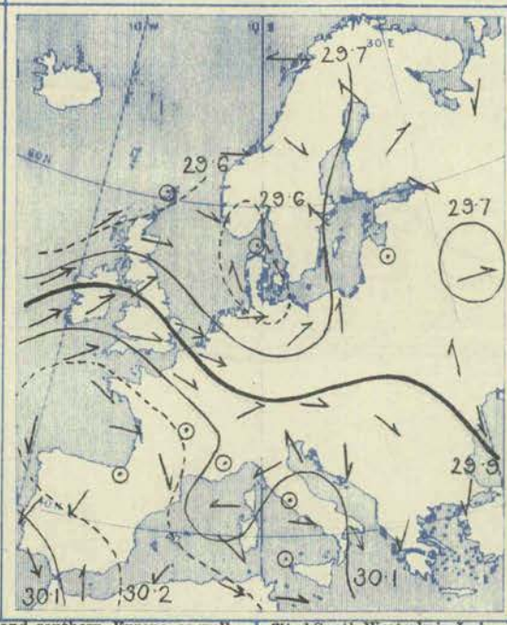
Temperature and Weather. 8 a.m.

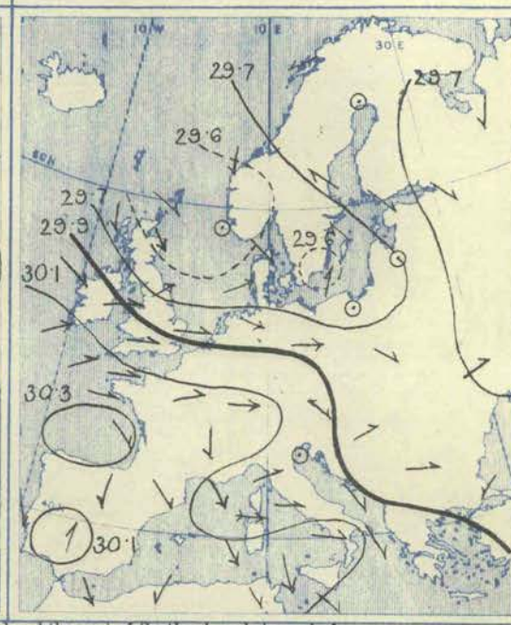


Weather in morning fine in most parts of Great Britain, France, and southern Europe, as well as in Sweden. Cloudy or dull elsewhere, with rain on our extreme north and north-west coasts, as well as at many stations in Germany, Denmark, and the south of Norway. Rain falling later in all the more northern parts of our Islands, and also in several parts of Scandinavia, Denmark, Germany, and Austria—heavily in places; thunderstorm occurring at Karlstad, and lightning seen at Christiansund. Improvement taking place on our northern coasts in evening.

Temperature risen in Spain, France, and Germany, but changed irregularly elsewhere. Morning readings highest, (1) 79° at Athens, 78° at Constantinople, and 77° at Lisbon, Barcelona, and Sfax; (2) 75° at Haparanda, 71° at Kuopio, and 69° at Bodö. Lowest, 50° at Sumburgh Head, 52° at Skudesnaes and Stornoway, and 54° at Fanö; below 60° over Germany and the northern parts of Austria. Rising during day to 70° and upwards at many of the English stations, and reaching 76° in London. Touching 77° at Haparanda; exceeding 80° over southern Europe generally, and reaching 97° at Lisbon, and 98° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind South-Westerly in Ireland and the west of Scotland, and strong in force on our extreme north-west coasts. Light to fresh from the Westward in all the more eastern and southern parts of our Islands, and also in the Netherlands; South-Westerly in Germany; Southerly over Denmark and the Baltic; South-Easterly in the south of Sweden. Variable in the north of Scandinavia, and also in Russia, Austria, and Italy; North-Westerly in France; North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward or Northward in Scotland; strong squalls from West experienced in many parts of England and Ireland.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, France, and the greater part of Spain and Algeria. Lowest, 29·6 ins. and less in a depression lying off the north of Scotland, and also in another system over Denmark and the extreme south of Norway; 29·7 ins. and less in shallow disturbances lying near Moscow and Kiev. Scotch and Danish depressions subsequently moving eastwards, and latter disturbance partially filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week a large anticyclone extended from the westward over nearly the whole of western and southern Europe, where the prevailing winds were Westerly or North-Westerly, and the weather fair, warm, and dry.

After the 29th June, however, the anticyclone receded to the south-westward, and on the 30th a well-marked depression travelled in an east-south-easterly direction across Scotland and the North Sea. The progress of this disturbance was marked by a considerable increase of wind in our Islands, and by rain in most districts, the unsettled weather ultimately spreading over the more central countries, where the rainfall was in some cases very large. In the rear of the depression the anticyclone in the south-west temporarily re-asserted itself, but towards the close of the week further cyclonic systems appeared in the north and moved eastwards, their progress being attended by strong Westerly or North-Westerly winds, and showery weather in many parts of the United Kingdom.

The distribution of temperature over Europe was abnormal, the readings over the extreme northern parts of Scandinavia and Russia being in many cases nearly, and in some quite, as high as in any part of southern Europe, and considerably higher than those in the more central countries, where the weather was extremely cool for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	36·5	+ 3·7	30	+ 3	SOUTHPORT	29·4	?	25	?
OSWALDKIRK (Yorkshire)	40·7	+ 5·9	35	+ 5	MANCHESTER (Oldham Road)	24·0*	?	21*	?
WORKSOP	34·4	- 0·4	30	- 1	COLWYN BAY	39·7	?	34	?
THURCASTON (Leicestershire)	34·2	- 2·8	30	- 2	TENBY	52·3*	+ 0·3	45*	0
MARGATE	42·1	+ 1·3	37	0	NEWQUAY	55·0	+ 3·2	49	+ 4
WESTBOURNE (Sussex)	44·7*	- 2·1	40*	- 2	TORQUAY	53·9*	+ 4·0	48*	+ 2
BRIGHTON	42·6	- 7·4	39	- 7	ARLEY COTTAGE (County Cavan)	36·2	- 2·8	31	- 1
EASTBOURNE	32·8	- 16·8	29	- 16	GUERNSEY	55·9*	+ 1·8	50*	+ 2

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 28.] *Third Series.* WEEK ENDING SATURDAY, JULY 11TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 164.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	42	62·2	48·2	54·7	0 (average)	89	+ 8	0	0	1056	+236	305	−318
	1. SCOTLAND, EAST	74	40	64·9	49·9	56·9	0 (average)	104	+ 6	0	0	1281	+256	408	−241
	2. ENGLAND, N.E.	80	48	69·0	52·9	60·4	2 above	129	+21	0	0	1327	+278	327	−222
	3. ENGLAND, EAST	86	45	75·2	53·9	63·8	4 above	153	+33	0	0	1502	+230	388	−249
	4. MIDLAND COUNTIES	83	43	73·8	52·7	62·5	3 above	144	+28	0	0	1586	+279	372	−247
	5. ENGLAND, SOUTH	85	50	73·7	57·3	64·9	5 above	169	+34	0	0	1670	+280	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	45	63·9	51·6	57·4	0 (average)	108	+ 8	0	0	1377	+285	234	−228
	7. ENGLAND, N.W.	75	47	69·0	53·6	60·8	2 above	132	+22	0	0	1513	+351	201	−258
	8. ENGLAND, S.W.	82	48	70·1	56·0	62·6	3 above	144	+29	0	0	1701	+365	155	−206
	9. IRELAND, NORTH	75	40	63·9	49·6	56·2	1 below	99	− 3	0	0	1496	+308*	162	−233
	10. IRELAND, SOUTH	75	40	68·6	51·7	58·6	0 (average)	116	+ 5	0	0	1742	+368	89	−210
	—CHANNEL ISLANDS	77	53	70·0	58·8	64·0	4 above	154	+29	0	0	1949	+446	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 164.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	5	3 less	130	+ 5	28·3	+ 3·6	31	0	25	0	621	− 63	25	− 2
	1. SCOTLAND, EAST	4	11	5 more	101	0	11·5	− 3·2	31	− 5	26	− 5	800	+ 27	32	+ 1
	2. ENGLAND, N.E.	2	6	1 more	81	−14	8·0	− 4·0	43	+ 7	37	+ 6	795	+ 39	32	+ 2
	3 ENGLAND, EAST	1	4	2 less	84	− 8	9·3	− 2·7	70	+26	61	+22	924	+ 44	37	+ 2
	4. MIDLAND COUNTIES	2	5	1 less	81	−10	9·2	− 4·1	48	+10	41	+ 8	840	+ 42	34	+ 2
	5. ENGLAND, SOUTH	1	less than ½	5 less	75	−12	7·8	− 5·5	69	+23	61	+20	937	+ 22	38	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	17	10 more	107	0	21·0	− 2·2	27	−14	23	−12	825	+ 12	33	+ 1
	7. ENGLAND, N.W.	3	14	8 more	97	0	14·8	− 0·5	41	0	36	0	804	+ 59	35	+ 3
	8. ENGLAND, S.W.	2	4	3 less	80	−18	10·5	− 7·5	45	− 2	39	− 3	1027	+ 54	41	+ 2
	9. IRELAND, NORTH	4	19	12 more	110	− 4	18·0	+ 0·6	28	− 7	24	− 6	748	− 23	30	− 1
	10. IRELAND, SOUTH	4	20	14 more	93	−12	15·1	− 4·1	33	− 3	29	− 3	859	− 8	35	0
	—CHANNEL ISLANDS	2	1	4 less	87	−18	7·7	− 7·4	52	+ 4	47	+ 2	1136	+ 39	46	+ 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was generally fine, bright, and dry over the greater part of England, but severe thunderstorms and very heavy rain were experienced at several of the inland stations about the middle of the week. Over Ireland, Scotland, and the north-west of England the conditions were mostly cloudy and unsettled, with rather frequent rain. The rain experienced on Wednesday and Thursday was very heavy. At the end of the week the weather was fine in all parts of the Kingdom.

Temperature scarcely differed from the normal in Ireland and Scotland, but was above it over England; the excess in England S. being as much as 5°. The highest of the maxima were recorded either on the 6th, 7th, or 9th over England, but on irregular dates at the Irish and Scotch stations. They ranged from 86° in England E. and S., and 83° in the Midland counties, to 72° in Scotland N. and W. The lowest of the minima (which were registered on very irregular dates), varied from 45° in Scotland E. and over Ireland, and 42° in Scotland N., to 50° in England S., and 53° in the Channel Islands.

Rainfall greatly exceeded the mean over Ireland, the east and west of Scotland, and in the north-west of England, and slightly exceeded it in England N.E. In Scotland N. and the other English districts there was a deficit, the total fall in England S. and the Channel Islands being very slight. On the 7th, a storm of hail of unusual severity was experienced in the neighbourhood of Cirencester.

Bright Sunshine was deficient in almost all the western and northern districts, but exceeded the mean over all the more eastern, central, and south-eastern parts of England. The percentage of the possible duration ranged from 61 in England S. and E., and from 47 in the Channel Islands, to between 24 and 29 in Ireland, and to between 23 and 26 in Scotland.

Barometer and Wind.—The distribution of pressure during this period changed rather frequently, being at times anticyclonic, and at others cyclonic. The winds consequently varied considerably in direction, and although moderate or light generally, occasionally blew freshly or strongly in the west. By the end of the period a well-defined anticyclone covered early the whole of our Islands and their immediate neighbourhood.

607 | 90 W. & S., Ltd.
213 70 7 | 96 1896

* The corresponding value in last week's report should read "+311".

II.—DATA from which the SUMMARY on page 163 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	44	57·1	48·1	52·3	0·0	72	0	3	0·51	+0·03	*	*	*	*
	Stornoway	63	44	60·6	47·4	53·5	− 0·4	81	0	3	0·31	−0·36	28·5	− 8·5	23	− 7
	Wick	64	42	61·7	47·7	54·2	− 0·5	85	0	3	0·80	+0·27	*	*	*	*
	Glencarron 𝔖	71	44	62·9	46·8	54·3	− 0·6	86	0	4	0·49	−0·76	*	*	*	*
	Fort Augustus 𝔖	72	44	66·5	49·6	57·5	+ 1·0	109	0	4	0·38	−0·30	26·7	+ 2·3	22	+ 2
	Fort William 𝔖	68	47	64·4	49·7	56·5	0·0	102	0	3	0·39	−0·71	37·0	+ 4·4	31	+ 3
1. SCOTLAND, E.	Nairn	73	40	65·9	46·9	55·7	− 1·2	96	0	3	0·57	+0·07	*	*	*	*
	Aberdeen	68	48	62·9	50·7	56·4	− 0·1	101	0	4	0·99	+0·48	32·7	− 6·6	27	− 6
	Braemar 𝔖	69	43	63·3	48·3	55·3	+ 1·0	93	0	4	0·66	−0·02	27·5†	− 7·7†	23†	− 7†
	Ochtertyre 𝔖	74	45	66·9	50·6	58·2	+ 0·7	113	0	4	1·13	+0·46	*	*	*	*
	Leith	74	49	66·4	52·3	58·9	+ 1·0	118	0	5	1·93	+1·43	*	*	*	*
	Marchmont 𝔖	71	48	63·9	50·7	56·8	+ 0·5	104	0	5	1·05	+0·37	33·5	− 5·2	28	− 5
2. ENGLAND, N.E.	Alnwick Castle	69	49	65·1	52·6	58·4	+ 1·5	115	0	4	0·43	−0·69	*	*	*	*
	Durham	79	48	72·4	51·4	61·2	+ 2·7	134	0	2	0·63	+0·08	40·5	+ 4·1	34	+ 3
	Shields	75	49	68·0	52·4	59·7	+ 2·5	124	0	2	0·54	+0·04	*	*	*	*
	Scarborough 𝔄	75	49	67·0	52·4	59·2	+ 0·6	120	0	2	0·69	+0·13	*	*	*	*
	York	80	49	73·6	54·0	63·1	+ 3·7	148	0	2	0·47	−0·10				
	Spurn Head	75	51	67·6	54·7	60·7	+ 1·2	131	0	2	0·65	+0·27	*	*	*	*
3. ENGLAND, E.	Hillington 𝔄	84	46	76·4	52·6	63·7	+ 3·9	152	0	1	0·94	+0·34	70·0	+27·8	61	+24
	Yarmouth	71	51	63·9	57·6	62·9	+ 3·4	146	0	1	0·35	−0·19	*	*	*	*
	Geldeston	82	49	75·4	53·8	63·9	+ 4·4	153	0	1	0·35	−0·15	75·8	+30·0	66	+25
	Cambridge	86	45	78·7	53·3	65·1	+ 4·2	162	0	1	0·22	−0·34	67·4	+24·4	59	+21
	Rothamsted	80	46	76·4	52·2	63·5	+ 3·7	151	0	1	0·07	−0·51	64·3	+19·3	57	+18
4. MIDLAND COUNTIES	Harrogate 𝔄	76	47	70·3	52·1	60·6	+ 2·2	130	0	2	0·35	?	41·8	?	36	?
	Bawtry (Hesley Hall)	81	44	74·7	52·7	62·9	+ 3·3	146	0	3	0·21	−0·37	*	*	*	*
	Loughborough	82	44	75·0	54·0	63·8	+ 3·2	153	0	3	1·23	+0·73	*	*	*	*
	Stamford (Ketton Hall)	81	43	?75·3	?52·3	?63·0	?+ 2·4	?147	0	1	0·58	+0·08	*	*	*	*
	Cheadle 𝔄	76	49	71·0	52·9	61·3	+ 4·1	135	0	2	0·16	−0·56	*	*	*	*
	Shirley (near Solihull)	78	44	72·8	52·0	61·7	+ 2·3	138	0	3	0·60	?	*	*	*	*
	Churchstoke 𝔄															
	Hereford 𝔄	83	46	76·2	51·6	63·0	+ 3·2	147	0	3	0·13	−0·35	*	*	*	*
	Cirencester	81	45	74·2	51·9	62·3	+ 3·4	142	0	4	0·10	−0·51	50·3	+ 8·6	44	+ 7
	Oxford	82	48	75·0	54·9	64·3	+ 3·7	156	0	1	0·82	+0·27	49·2	+ 7·2	43	+ 6
5. ENGLAND, S.	London	86	53	80·6	56·6	67·8	+ 5·9	181	0	1	0·01	−0·49	68·4†	+29·6†	60†	+26†
	North Foreland	82	57	72·7	58·7	65·2	+ 5·7	162	0	0	—	?	*	*	*	*
	Dungeness	75	56	70·0	58·4	63·8	+ 3·5	153	0	0	—	−0·40	*	*	*	*
	Hastings (St. Leonards)	76	50	71·6	55·1	62·8	+ 2·9	146	0	1	0·01	−0·44	78·3	+28·3	68	+24
	Southampton	78	54	75·9	57·4	66·0	+ 4·5	168	0	0	—	−0·51	59·2	+12·7	52	+11
	Hurst Castle	76	55	72·1	58·9	65·6	+ 4·3	161	0	0	—	−0·49	*	*	*	*
	Stowell 𝔄	79	51	73·1	55·9	63·9	+ 4·8	153	0	3	0·08	−0·50	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	46	62·8	50·2	56·1	− 1·0	99	0	6	1·13	−0·01	*	*	*	*
	Glasgow	72	48	64·2	51·4	57·4	+ 0·2	108	0	4	1·54	+0·87	21·1	−13·9	18	−10
	Ardrossan	69	52	64·3	53·3	58·4	+ 0·8	115	0	4	1·41	+0·84	*	*	*	*
	Glenlee 𝔖	70	45	65·0	51·3	57·7	+ 0·4	110	0	4	1·91	+1·11	*	*	*	*
	Douglas (Isle of Man)	66	48	63·4	51·9	57·3	+ 0·4	107	0	4	2·70	+2·20	32·3	−14·7	28	−13
7. ENGLAND, N.W.	Stonyhurst	72	47	69·0	53·3	60·6	+ 2·4	130	0	2	1·09	+0·23	47·0	+ 6·8	41	+ 6
	Blackpool 𝔄	73	47	70·9	52·2	60·9	+ 1·7	132	0	2	1·61	+1·08	34·0	− 7·6	29	− 7
	Manchester (Prestwich)	75	47	71·6	53·0	61·7	+ 3·3	138	0	2	1·05	+0·32	42·5	?	37	?
	Liverpool Obsy. (Bidston)	74	52	70·9	55·0	62·4	+ 2·7	143	0	2	0·65	+0·11	*	*	*	*
	Llandudno 𝔄	72	49	68·5	54·2	60·9	+ 1·4	132	0	3	1·38	+0·88	*	*	*	*
	Holyhead	69	52	63·3	53·9	58·3	− 0·2	114	0	4	2·84	+2·36	*	*	*	*
8. ENGLAND, S.W.	Llandovery	82	49	77·0	53·6	64·5	+ 5·9	158	0	2	0·47	−0·31	*	*	*	*
	Pembroke	66	52	64·0	55·1	59·2	+ 1·3	120	0	2	0·71	+0·24	27·9	−21·9	24	−18
	Clifton	79	55	72·7	57·7	64·7	+ 4·5	159	0	1	0·12	−0·45	*	*	*	*
	Arlington (N. Devon)	74	48	68·4	55·1	61·3	+ 3·2	135	0	2	1·01	+0·11	*	*	*	*
	Cullompton 𝔄	78	48	73·8	56·1	64·3	+ 3·8	156	0	2	0·11	−0·61	42·2	+ 0·3	37	0
	Falmouth	71	54	68·1	56·3	61·8	+ 2·3	139	0	2	0·27	−0·41	44·9	− 5·2	40	− 4
	Plymouth	77	52	68·5	58·1	62·9	+ 2·2	146	0	2	0·09	−0·41	48·9	+ 3·9	44	+ 3
	Prawle Point	74	54	68·1	56·1	61·7	+ 3·3	138	0	2	0·02	−0·38	*	*	*	*
9. IRELAND N.	Malin Head	68	50	62·6	52·3	57·1	+ 0·6	106	0	3	0·30	?	*	*	*	*
	Londonderry	75	47	66·9	48·9	57·3	− 0·8	107	0	4	0·80	+0·20	*	*	*	*
	Edenfel (Omagh)	69	43	63·0	47·9	54·9	− 1·5	90	0	3	1·30	+0·65	*	*	*	*
	Belmullet	65	53	61·4	54·6	57·8	+ 0·4	111	0	5	1·44	+0·84	*	*	*	*
	Markree Castle	71	44	64·2	46·9	55·0	− 1·3	91	0	6	1·89	+1·16	24·5	− 8·0	21	− 7
	Armagh	73	43	64·9	47·5	55·6	− 1·8	95	0	4	3·07	+2·38	23·7	−11·8	20	−11
	Donaghadee	66	46	62·0	50·7	56·0	− 1·2	98	0	4	2·85	+2·35	*	*	*	*
	Edgeworthstown	74	40	65·8	47·6	56·1	− 2·3	99	0	4	3·30	+2·66	*	*	*	*
10. IRELAND, S.	Dublin	74	47	67·8	52·9	59·8	+ 0·1	125	0	3	2·08	+1·63	41·2	+ 2·7	36	+ 3
	Parsonstown	75	42	66·6	50·1	57·8	− 0·3	111	0	3	1·93	+1·43	27·4	− 5·1	24	− 5
	Kilkenny	73	44	68·6	50·1	58·7	+ 0·3	117	0	4	1·80	+1·25	*	*	*	*
	Roche's Point	67	50	64·7	54·6	59·3	+ 0·3	121	0	4	1·35	+0·67	*	*	*	*
	Valencia	68	47	64·3	52·7	58·1	− 0·3	113	0	5	1·15	+0·19	30·0	− 8·2	26	− 7
	Killarney	70	40	67·5	50·8	58·5	+ 0·8	116	0	5	3·22	?	*	*	*	*
	Foynes	74	44	66·9	50·9	58·3	+ 0·8	114	0	6	2·47	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	57	67·9	58·6	62·9	+ 3·5	146	0	1	0·16	−0·31	42·3	?	38	?
	Jersey	77	53	72·0	58·9	65·0	+ 3·6	161	0	2	0·04	−0·39	52·4	0·0	47	0

Stations marked 𝔄 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

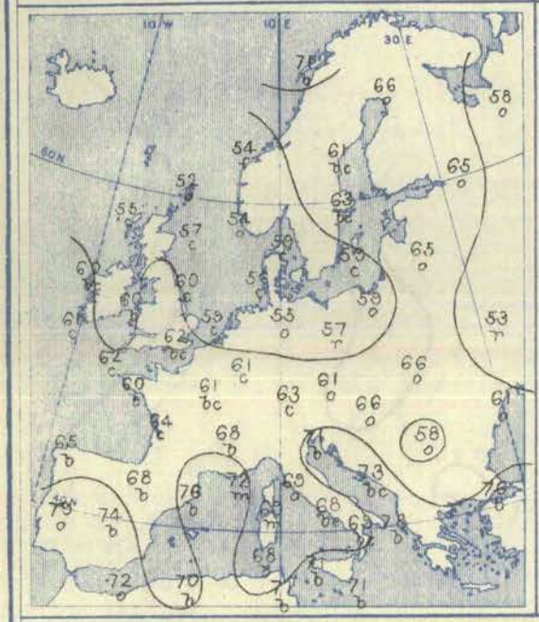
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row) a the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page

Sunday, 5th July.

Temperature and Weather.

8 a.m.

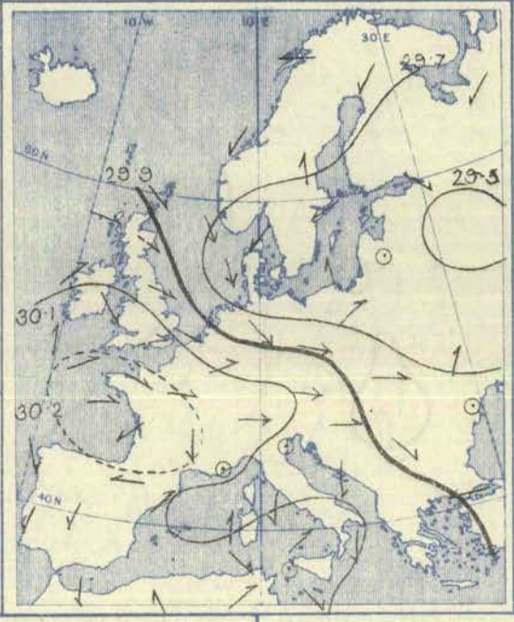


Weather in morning fine and bright over the Mediterranean, Spain, France, and the greater part of the British Islands, as well as over the Gulf of Finland, Sweden, and some parts of the Baltic; dull over Russia; rainy over central Europe. Local showers of rain at some of the northern and western stations in our Islands, and more generally over central Europe (nearly 0·9 in. at Breslau), but weather remaining very fine over Great Britain—with 14 to 15 hours of sunshine in most places.

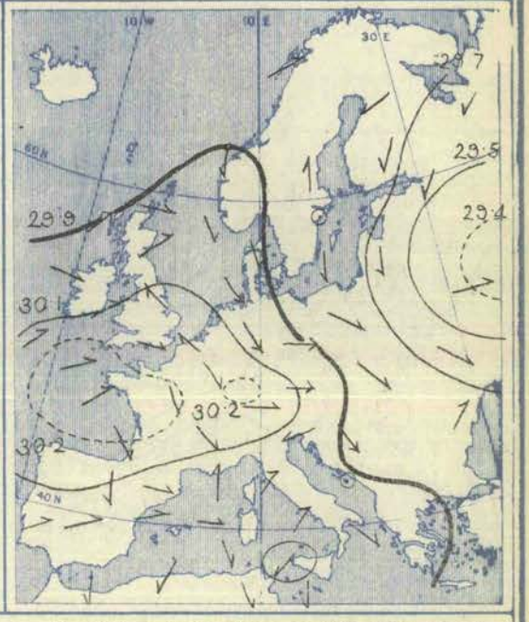
Temperature risen somewhat in our Islands and central Europe, fallen over Russia. Morning readings highest, 79° at Lisbon, 78° at Brindisi, and above 70° over the Mediterranean as a whole, and 70° even at Bodö (Finmark); above 60° over many parts of the British Islands, France, and most other parts of Europe. Lowest, 52° at Sumburgh Head, and 55° to 57° over the northern half of Scotland, 54° at Parsonstown, 57° at Malin Head and Liverpool. Rising later to between 70° and 76° over the greater part of England, to 74° at Paris, 80° at Lyons, 88° at Cagliari and Palermo, 91° at Tunis, 95° at Oporto, 97° at Perpignan.

Barometer and Wind.

8 a.m.



6 p.m.



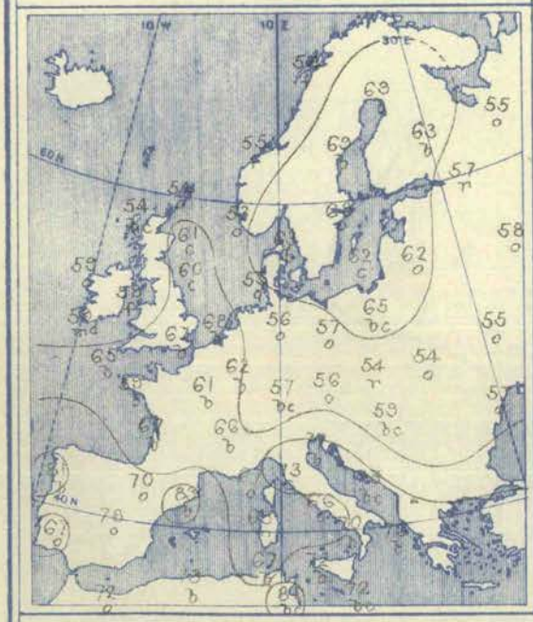
Wind light and anticyclonic over the whole of Spain, France, and the British Islands, somewhat stronger, and cyclonic over northern and central Europe (Easterly to North-Easterly at the northern stations; North-Westerly to Westerly over Germany); very variable over south-eastern and southern Europe and the Mediterranean. Backing towards South later, and becoming cyclonic on our north-western coasts; very little change elsewhere.

Barometer highest, 30·3 ins. and more over the Bay of Biscay and west of France, and exceeding 30·0 ins. over the whole of Spain, France, southern and western Germany, and nearly the whole of the British Islands. Lowest, about 29·5 ins. in a depression over Russia, and below 29·6 ins. in a large secondary over Denmark and the south of Sweden; below 30·0 ins. in another over the northern parts of the Mediterranean. Falling later after a brisk rise on our north-western coasts, and fall spreading eastwards and southwards.

Monday, 6th July.

Temperature and Weather.

8 a.m.

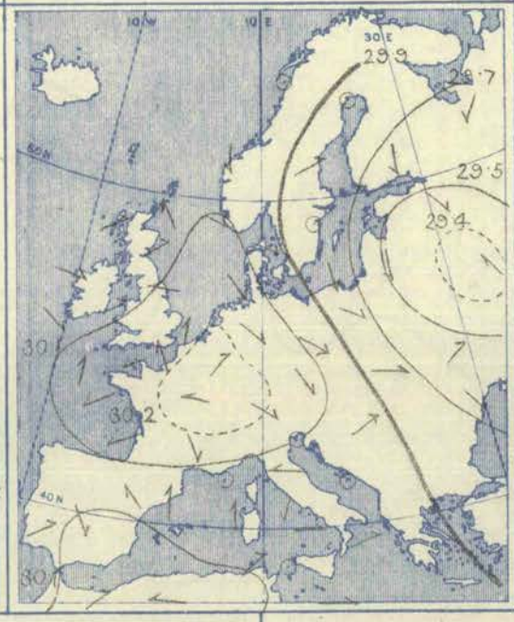


Weather in morning fine and bright over the Mediterranean, France, and England, dull over Spain, Ireland, and Scotland, and also over Central Europe and Russia, with rain in several places. Fog prevalent in the west of Norway. Rain falling later over Scotland, Ireland, and some parts of France, as well as at Hernösand; amounts large at Lorient, Parsonstown, Donaghadee, and Leith; remaining very fine over France and England; but some local falls in Russia.

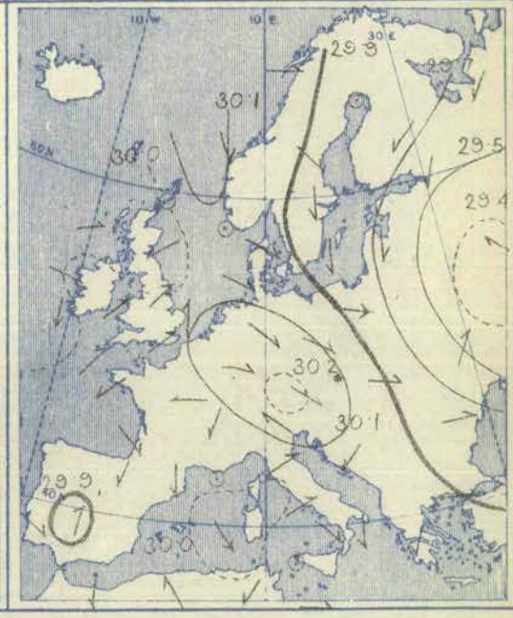
Temperature rising over Great Britain, falling over south-eastern Europe and the Baltic provinces. Morning readings, highest, 83° at Barcelona, 84° at Tunis and Oporto, and above 70° at most of the stations in southern Europe; 67° in London, 66° at Liverpool, 60° at Haparanda and Hernösand, 68° at Stockholm. Lowest, 53° at Skudesnaes and Munster, 54° at Aberdeen and Stornoway, as well as at Prague and Cracow, 55° at Breslau and Kiev, 58° at Moscow. Rising during day to between 90° and 95° in the south-west of France, to 90° in some parts of Algeria, to 84° at Brindisi as well as in London and at Cambridge, and to 80° at York.

Barometer and Wind.

8 a.m.



6 p.m.



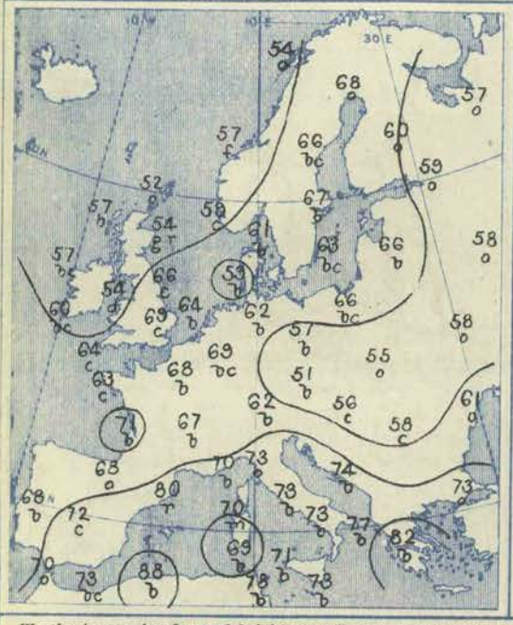
Wind light and anticyclonic over France and England, moderate Northerly over the Baltic and south of Scandinavia, North-Westerly over North Germany, South-Westerly over the south of Russia, South-Easterly at Moscow; a Northerly breeze setting in over the north of Ireland, while a South-Westerly wind prevailed at Holyhead; Northerly and North-Westerly winds becoming general over Ireland later, and variable airs over Great Britain.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an anticyclonic system covering France, western Germany, and the greater part of the North Sea and England. Lowest, below 29·4 ins. in a large depression over central Russia, and 30·0 ins. over the northern half of Scotland; falling irregularly over western Europe later, and distribution becoming complex over the British Islands and France.

Tuesday, 7th July.

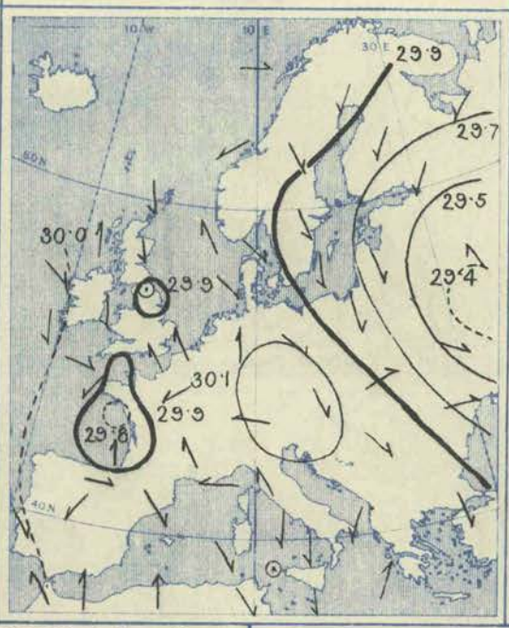
Temperature and Weather.

8 a.m.

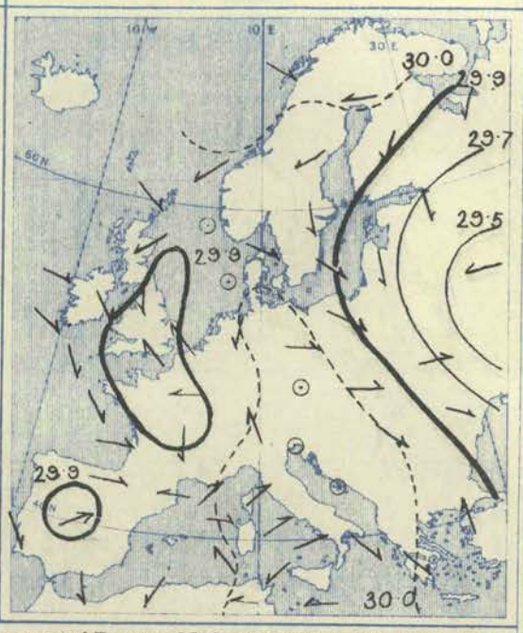


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over France, western Germany, and Ireland, as well as at the Swedish stations; overcast in Russia, with rain at Kharkov; very changeable and unsettled over Great Britain, with rain at the Scotch stations and Holyhead; thunderstorms occurring very generally over England and central France later, with heavy local falls of rain or hail. Exceptionally severe storm at Lyons, with 2·76 ins. of rain and hail.

Temperature high over western and northern Europe, low in the east. Morning readings highest, 88° at Algiers, 82° at Patras, 80° at Barcelona, and exceeding 70° at the Mediterranean stations generally and Constantinople; 69° in London, 68° at Haparanda, 67° at Stockholm. Lowest, (1) 52° at Sumburgh Head, 53° to 54° on the north-east coast of Scotland generally, 54° at Holyhead; (2) 51° at Prague, 56° at Vienna and Buda Pesth; (3) 55° at Kharkov and Lemberg, 58° at Moscow; rising later to 95° at Algiers, 94° at Lyons, 93° at Gap, 87° at Paris, 86° in London, 84° at Brussels, and to between 77° and 81° in the north of Sweden.

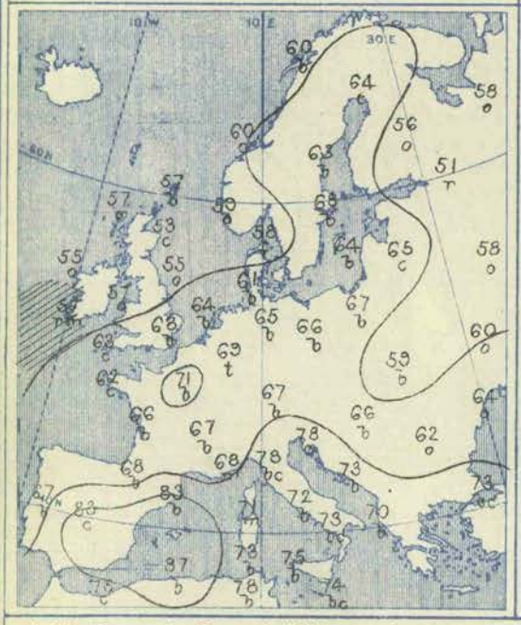
Wind (1) light and anticyclonic over central Europe and Italy; (2) moderate, but cyclonic, over Russia and the Baltic; (3) Extremely variable, but mainly cyclonic, over the British Islands, but chiefly North-Westerly in Ireland; backing towards West at the Irish stations later; very variable over Great Britain and France.

Barometer highest (1) 30·1 ins. and more over central Europe, and exceeding 30·0 ins. in a broad band of irregular outline stretching from the south of Italy over Austria and Germany to the North Sea and Norway; (2) above 30·0 ins. in the west of Ireland. Lowest, (1) below 29·4 ins. in a depression over the central parts of Russia; (2) below 29·8 ins. at Lorient, below 29·9 ins. at Shields, and below 30·0 ins. over Great Britain and France generally. A very complex thunderstorm disturbance passing across Great Britain and France during the day, and barometer changing fitfully in those countries.

Wednesday, 8th July.

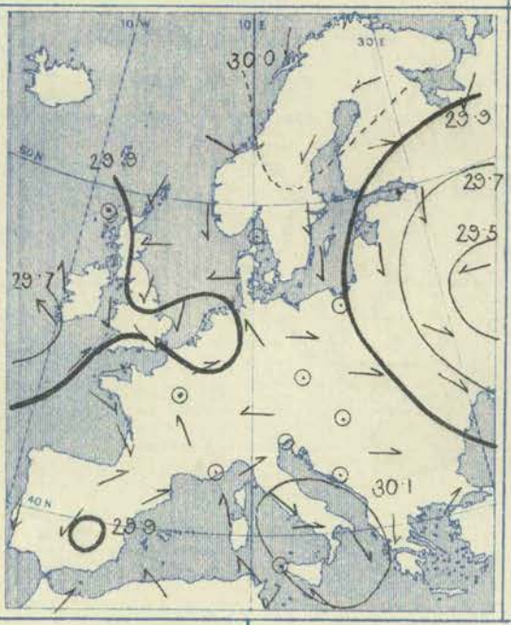
Temperature and Weather.

8 a.m.

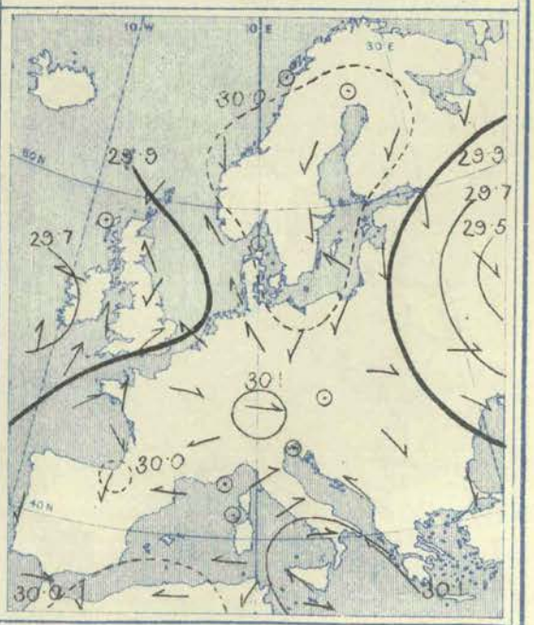


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, France, Germany, and Scandinavia, as well as the east of England; very rainy in Ireland; dull in Wales and Scotland; dull over Russia, with rain in places. Very heavy rains later over many of the western and northern parts of the United Kingdom, and sky looking very unsettled over England; thunderstorm occurring at Holyhead; lightning at Biarritz. Heavy local rain at Moscow.

Temperature rising over Russia, falling over Finland. Morning readings highest, 87° at Algiers, 83° at Madrid, and exceeding 70° at all Mediterranean stations, 71° at Paris, 70° at Dungeness, and 68° in London and at Stockholm. Rising later to between 80° and 86° in the south of France, to 84° at Paris, 83° at Brussels and in London, but not touching 70° over Ireland or the north of England, and not touching 60° at several stations in Scotland and the north of Ireland; reaching 109° at Tunis, 104° at Algiers, and 95° at Cagliari.

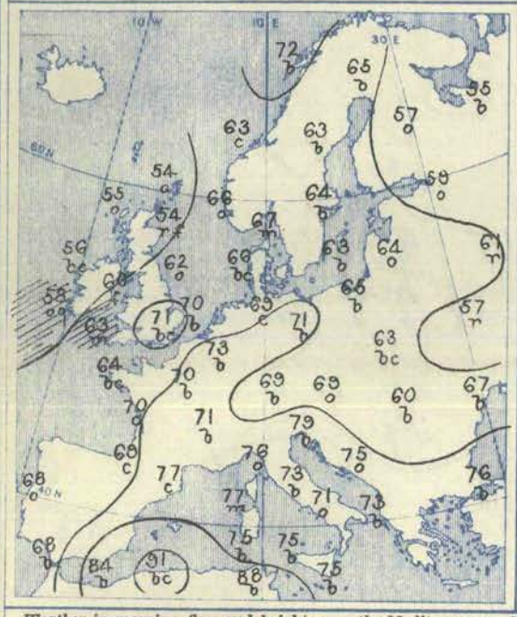
Wind (1) light and anticyclonic over southern and central Europe, as well as over the Gulf of Bothnia and Scandinavia; (2) light North-Easterly to North-Westerly (cyclonic) over Russia; (3) South-Easterly and variable (cyclonic) over the British Islands, and blowing strongly at Valencia. Southerly to Easterly breezes becoming more general over the British Islands later.

Barometer highest, 30·1 ins. and more to 30·0 ins. over nearly the whole of south-eastern, southern, and central Europe, and exceeding 30·0 ins. over the northern parts of Scandinavia and Finland, with Lapland. Lowest, below 29·5 ins. in a large depression over Russia, and below 29·7 ins. in a new system approaching the Irish coasts from the Atlantic. The latter system spreading over Ireland and Scotland later, but barometer showing a tendency to rise over the Continent and east of England.

Thursday, 9th July.

Temperature and Weather.

8 a.m.

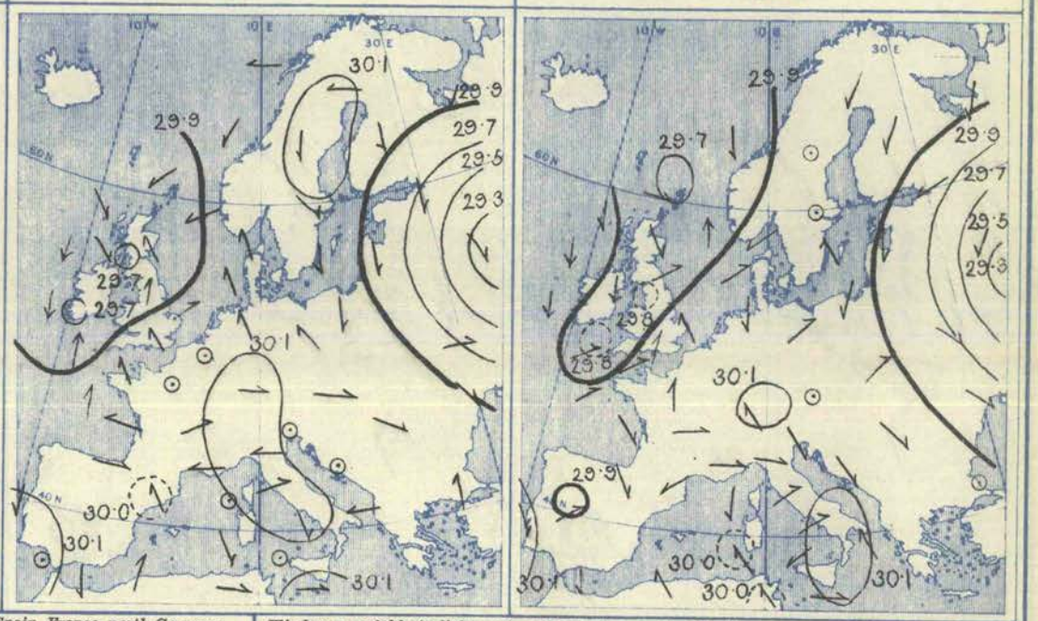


Weather in morning fine and bright over the Mediterranean, Spain, France, north Germany, the Baltic, and Sweden, as well as over south-eastern Europe generally; cloudy and unsettled over the British Islands, with rain at the western and northern stations; dull and rainy over Russia also. Further falls of rain in the west and north later (heavy at Holyhead); thunder and lightning in the north of England and at Lyons; rain at La Coubre, and a considerable fall at Münster.

Temperature not changing much. Morning readings highest, 91° to 79° at the Algerian stations, 76° at Constantinople, 79° at Trieste, 71° in London and at Berlin, 72° at Bodö, also 67° at Karlstad. Lowest, (1) 54° to 55° at most of the Scotch stations, and at those in the north of Ireland; (2) 55° at Archangel, 59° at St. Petersburg, 60° at Kharkov. Rising later to 105° at Aumale, 108° at Biskra, 99° at Cagliari, 90° at Lyons and Berlin, 89° at Paris, 86° at Cambridge, and 83° in London, and touching 79° at the Danish stations and at Haparanda. Succeeding night very warm over England.

Barometer and Wind.

8 a.m. 6 p.m.



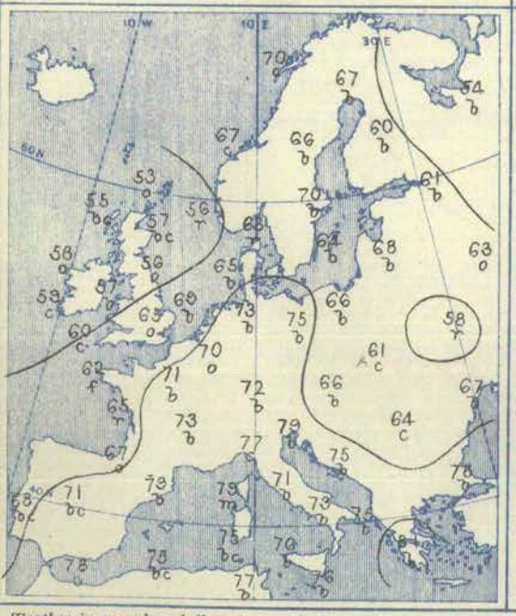
Wind very variable (1) light and anticyclonic over the Mediterranean, southern, central, and northern Europe; (2) light and cyclonic (North-Easterly to Northerly and Westerly) over Russia; (3) cyclonic, light to strong over the British Islands—Southerly in the east; Northerly in the west. The Northerly winds in the west spreading eastwards later, and blowing strongly in places.

Barometer highest, 30·2 ins. to 30·0 ins. over southern, central, and northern Europe, and exceeding 30·1 ins. over the south-west of Spain. Lowest, (1) 29·3 ins. and less in a well-marked depression over central Russia; (2) 29·8 ins. to 29·7 ins. and less in a complex disturbance ("trough") over the north and west of our Islands, and having two distinct minima—one over the south-west of Scotland, the other near Roche's Point. The western system moving eastwards later, and becoming still more complex. Barometer rising decidedly in its rear.

Friday, 10th July.

Temperature and Weather.

8 a.m.

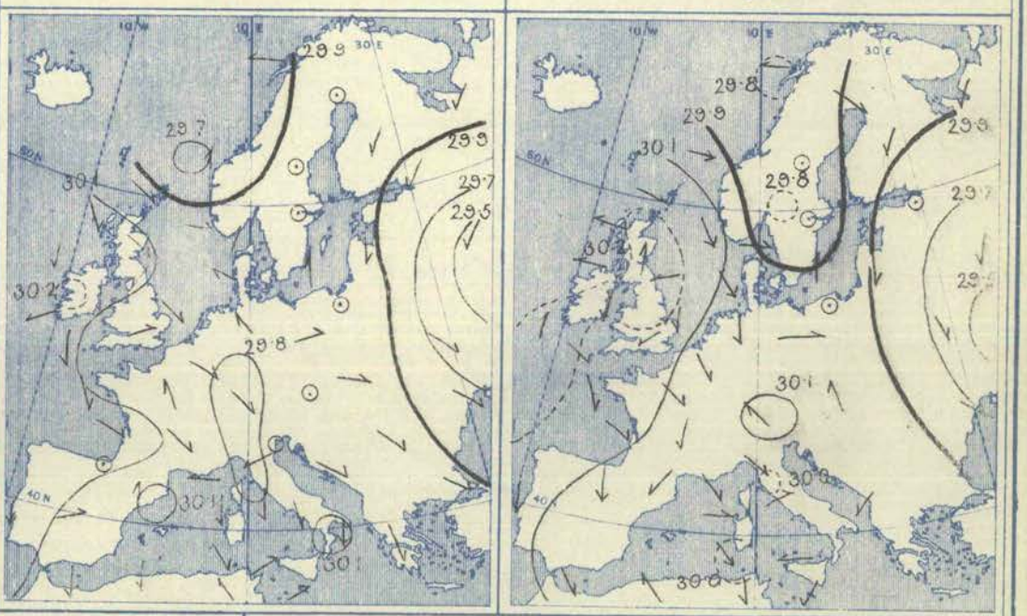


Weather in morning dull and unsettled over the greater part of England and the west and north of France, with slight rain in places. Fine in most other parts of Europe, but dull over Denmark and the south of Norway, as well as in central Russia; rain falling at Skudesnaes, Skagen, and Kiev. Sky clearing later over England, but rain falling in many parts of Scandinavia, Denmark, and Germany; thunderstorms occurring at Karlstad, Lyons, and Biarritz, with heavy rain at the last-mentioned station.

Temperature fallen in England, the west of France, and south of Norway, but risen in most other localities. Morning readings highest, 81° at Athens, 79° at Barcelona and Trieste, and 78° at Constantinople, Nemours, and Oran; above 70° in most parts of central and southern Europe, and just touching it at Bodö. Lowest, (1) 53° at Sumburgh Head, and 55° at Stornoway, Wick, and Parsonstown; (2) 54° at Archangel. Exceeding 70° later in many parts of England, and reaching 76° in London. Touching 79° at Bodö and Stockholm, 90° at Berlin, Wiesbaden, and Nice, and 91° at Perpignan.

Barometer and Wind.

8 a.m. 6 p.m.

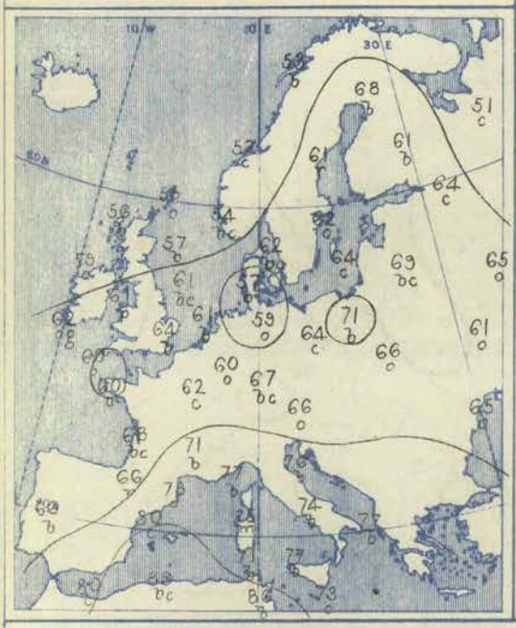


Wind light to fresh from the Northward or North-Westward over the greater part of our Islands, but Westerly over the south-east of England, the Netherlands, and the west and north of France. Varying between South and East in Denmark and Norway, but calm in Sweden. North-Easterly over the northern and central parts of Russia, but North-Westerly in the south of that country. Variable over southern Europe generally. Subsequently becoming very variable in our Islands, veering to the North-Westward in the west and north of France.

Barometer highest, 30·2 ins. and upwards over central Ireland, 30·1 ins. and upwards in an anticyclone lying over the western and northern parts of our Islands generally, the Bay of Biscay, and the western parts of Spain. Lowest, 29·5 ins. and less in a well-marked depression over Russia, 29·7 ins. and less in another system off the west of Norway. Anticyclone spreading eastwards later, and barometer rising over western Europe generally.

Saturday, 11th July.

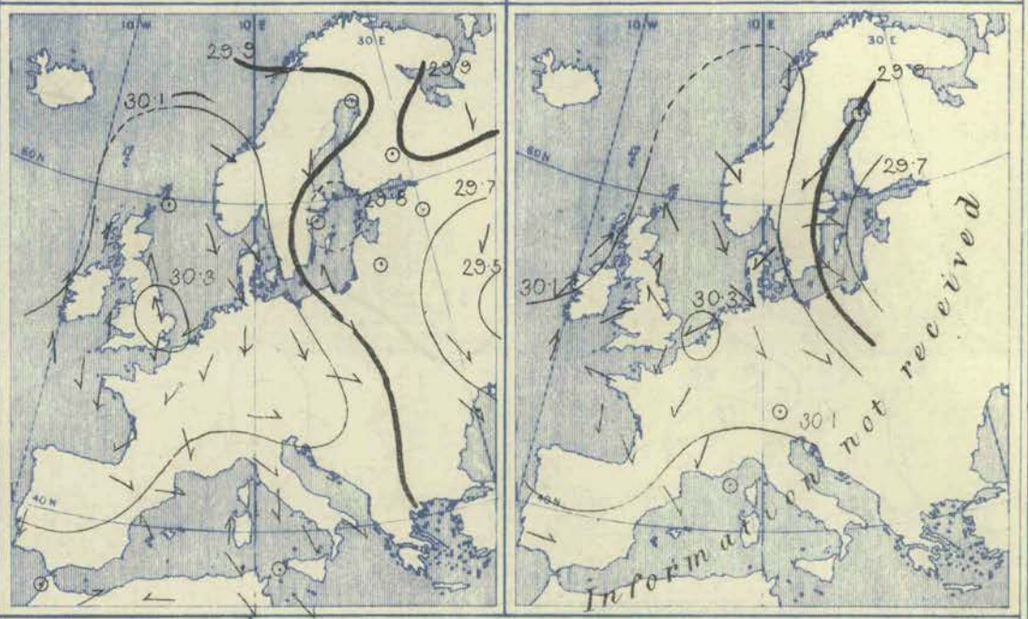
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over France, and all but the south-western and western parts of the British Islands; dull and unsettled over the northern and eastern parts of Europe, with rain in places. Rain falling later over Scandinavia generally, and at some of our extreme north-western and western stations, and a thunderstorm occurring at Biarritz; weather very fine over England.

Temperature less high over England and France than on Friday. Morning readings highest, 80° to 89° over Algeria and Tunis, 77° at Palermo and Brindisi, and also at Nice, 66° at Jersey, 70° at Ulealborg, 68° at Haparanda. Lowest, 51° at Archangel, 52° at Christiansund, 55° at Sumburgh Head. Rising later to between 70° and 76° over the north-eastern and inland parts of Great Britain, to 79° at Paris, 82° at Rochefort, and 88° at Nice.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light to moderate and anticyclonic over the British Islands and their neighbourhood; North-Westerly strong and cyclonic over Scandinavia and Denmark; moderate over north Germany, but South-Easterly light over the eastern side of the Baltic. Very light and variable over the Mediterranean. Freshening somewhat later from the Southward over Ireland, and blowing a moderate gale from the North-Westward at Skudesnaes.

Barometer highest, 30·3 ins. and more to 30·1 ins. in an anticyclone covering our Islands and all the neighbouring countries, as well as the North Sea. Lowest, below 29·8 ins. in a depression over Sweden, and below 29·5 ins. in another large one over central Russia. No decided change in our Islands later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of the week the distribution of pressure over Europe has undergone frequent changes. At the commencement of the time a large anticyclone spread north-eastwards over all but the more eastern parts of the Continent, the winds being consequently light in force, and the weather fine, warm, and dry. Between the 6th and 7th, however, the anticyclone broke up, while shallow depressions were formed over Great Britain and France, the latter systems causing thunderstorms and rain in many places; in isolated parts of England and France the storms were very severe, and were accompanied by heavy falls of hail. Later on a large and complex depression moved eastwards and north-eastwards across our Islands, and occasioned considerable quantities of rain in many of the western and northern districts, with thunderstorms in places. As this disturbance moved away to the north-eastward, a large anticyclone again spread over us from the Atlantic, and by the close of the week this, like the previous one, had embraced the greater part of the Continent, the weather being again fine and warm in all but the northern and eastern countries.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 164.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	28·9	- 2·9	24	- 3	SOUTHPORT	38·2	?	33	?
OSWALDKIRK (Yorkshire)	45·8	+11·3	39	+ 9	MANCHESTER (Oldham Road)	41·8*	?	36*	?
WORKSOP	47·1	+12·2	41	+ 10	COLWYN BAY	42·6	?	37	?
THURCASTON (Leicestershire)	50·0	+13·2	43	+ 11	TENBY	51·9*	+ 3·4	45*	+ 3
MARGATE	71·1	+29·1	63	+ 25	NEWQUAY	35·9	-13·9	32	- 12
WESTBOURNE (Sussex)	65·8*	+19·0	58*	+ 16	TORQUAY	60·5*	+13·5	54*	+ 10
BRIGHTON	65·2	+15·0	58	+ 12	ARLEY COTTAGE (County Cavan)	36·2	- 0·3	31	0
EASTBOURNE	75·8	+26·3	67	+ 23	GUERNSEY	61·2*	+ 7·8	55*	+ 6

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd. Lith

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 29.] *Third Series.* WEEK ENDING SATURDAY, JULY 18TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 170.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	74	41	63·3	51·2	58·8	2 above	104	+21	0	0	1160	+257	305	−318
	1. SCOTLAND, EAST	81	40	68·1	50·6	58·8	2 above	118	+17	0	0	1399	+273	408	−241
	2. ENGLAND, N.E.	82	43	67·3	52·0	59·1	1 above	120	+ 8	0	0	1447	+286	327	−222
	3. ENGLAND, EAST	88	40	71·1	51·7	60·7	0 (average)	131	+ 7	0	0	1633	+237	388	−229†
	4. MIDLAND COUNTIES	85	43	72·3	50·9	60·9	1 above	132	+12	0	0	1717*	+290	372	−247
	5. ENGLAND, SOUTH	87	45	71·7	55·1	62·8	2 above	146	+16	0	0	1816	+296	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	42	65·8	51·2	58·0	1 above	112	+ 9	0	0	1489	+294	234	−228
	7. ENGLAND, N.W.	78	43	67·5	53·2	59·8	1 above	125	+12	0	0	1638	+363	201	−258
	8. ENGLAND, S.W.	82	42	71·2	53·8	61·9	2 above	139	+21	0	0	1840	+386	155	−206
	9. IRELAND, NORTH	76	41	64·7	52·5	58·2	1 above	113	+ 9	0	0	1609	+317	162	−233
	10. IRELAND, SOUTH	77	43	65·8	53·7	59·8	1 above	125	+12	0	0	1857	+380	89	−210
	—CHANNEL ISLANDS	77	52	68·8	56·9	62·4	2 above	143	+15	0	0	2092	+461	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 170.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	3 less	135	+ 5	28·9	+ 3·4	20	− 7	16	− 7	641	− 71	24	− 3
	1. SCOTLAND, EAST	3	2	4 less	104	− 2	11·7	− 3·7	43	+ 9	36	+ 6	843	+ 36	32	+ 1
	2. ENGLAND, N.E.	2	1	5 less	83	−16	8·1	− 4·5	35	− 1	30	− 1	830	+ 38	32	+ 2
	3. ENGLAND, EAST	3	4	2 less	87	− 9	9·7	− 2·9	48	+ 4	43	+ 4	972	+ 48	37	+ 1
	4. MIDLAND COUNTIES	1	1	6 less	82	−13	9·3	− 4·6	44	+ 8	39	+ 7	884	+ 50	34	+ 2
	5. ENGLAND, SOUTH	2	3	3 less	77	−14	8·1	− 5·7	57	+11	52	+10	994	+ 33	38	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	2	6 less	111	0	21·2	− 2·8	37	− 1	32	− 1	852	+ 11	33	+ 1
	7. ENGLAND, N.W.	0	—	7 less	97	− 5	14·8	− 1·2	54	+18	47	+16	858	+ 76	35	+ 3
	8. ENGLAND, S.W.	0	—	7 less	80	−23	10·5	− 8·2	75	+30	68	+27	1102	+ 84	43	+ 4
	9. IRELAND, NORTH	4	5	2 less	114	− 6	18·5	+ 0·4	26	− 6	22	− 6	774	− 29	30	− 1
	10. IRELAND, SOUTH	2	2	5 less	95	−14	15·3	− 4·8	37	+ 3	33	+ 1	896	− 5	34	− 1
	—CHANNEL ISLANDS	1	1	5 less	88	−21	7·8	− 7·3	74	+16	68	+15	1210	+ 56	47	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was fine and dry over the Kingdom as a whole, but was somewhat unsettled, with occasional rain on our extreme north and north-west coasts. Over the east and south-east of England a temporary change to cool, rainy weather occurred suddenly on Wednesday or Thursday, accompanied in many places by thunder and lightning.

Temperature just equalled the mean in England E., but was one or two degrees above it elsewhere. The highest of the maxima were recorded during the earlier days of the week, when they ranged from 88° in England E., 87° in England S., and 85° in the Midland counties, to 74° in Scotland N., and 72° in Scotland W. The maxima registered on Thursday over the south-eastern counties were very low for the season, the readings at Cambridge and in London being about 30° lower than those of Tuesday. The lowest of the minima occurred on rather irregular dates, but principally during the latter half of the period; they ranged from 40° in Scotland E. and England E., and 41° in Ireland N. and Scotland N., to 45° in England S., and to 52° in the Channel Islands.

Rainfall was considerably less than the mean in all districts. Over the western parts of England rain was entirely absent, and in the Midland counties, England N.E. and the Channel Islands the fall was extremely slight.

Bright Sunshine exceeded the mean in most districts, but was deficient in the north and west of Scotland, as well as in Ireland N. and England N.E. The percentage of the possible duration ranged from 68 in England S.W. and the Channel Islands, and from 52 in England S., to 30 in England N.E., 22 in Ireland N., and to 16 in Scotland N.

Barometer and Wind.—The distribution of pressure was mainly anticyclonic, and the wind variable to Northerly in all except the extreme north-western and northern parts of the Kingdom, which regions were affected by depressions moving north-eastwards some distance to the north-westward of our Islands. On the 14th, however, a disturbance passed directly over our northern coasts, and a "V" shaped depression was formed over the more southern districts. As this system passed away eastwards it became deeper, causing a fresh to strong Northerly breeze to spring up over all our more eastern and southern coasts, and producing the sudden fall of temperature noted above. Towards the end of the period the anticyclonic conditions became re-established, and the Northerly winds had fallen light.

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* This value has been altered owing to the receipt of further information for a preceding week.
† The corresponding value in last week's report should read "−229".

II.—DATA from which the SUMMARY on page 169 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	63	50	59·0	51·0	54·7	+ 2·0	89	0	4	0·73	+0·19	*	*	*	*
	Stornoway	64	50	61·7	52·3	56·7	+ 2·3	103	0	3	0·26	−0·42	12·2	−20·8	10	−17
	Wick	68	48	63·7	51·4	57·1	+ 2·1	106	0	5	0·82	+0·26	*	*	*	*
	Glencarron Ⓢ	69	41	62·4	49·2	55·3	+ 0·6	93	0	6	0·49	−0·87	*	*	*	*
	Fort Augustus Ⓢ	74	45	68·3	51·5	59·3	+ 2·8	121	0	5	0·30	−0·42	18·4	− 1·9	15	− 2
	Fort William Ⓢ	70	45	64·6	51·6	57·7	+ 1·1	110	0	5	0·82	−0·35	28·0	− 0·5	24	0
1. SCOTLAND, E.	Nairn	73	41	67·0	49·9	57·9	+ 1·6	111	0	4	0·57	−0·03	*	*	*	*
	Aberdeen	75	45	66·1	51·6	58·4	+ 0·6	115	0	4	0·11	−0·52	45·4	+ 8·7	38	+ 7
	Braemar Ⓢ	74	40	67·3	48·9	57·5	+ 3·0	109	0	3	0·13	−0·54	46·5†	+14·5†	39†	+12†
	Ochtertyre Ⓢ	76	44	71·1	51·6	60·7	+ 2·7	131	0	4	0·21	−0·53	*	*	*	*
	Leith	75	50	69·3	52·1	60·1	+ 1·7	127	0	2	0·11	−0·50	*	*	*	*
	Marchmont Ⓢ	81	44	67·7	49·7	58·1	+ 1·6	113	0	3	0·25	−0·53	34·5	− 2·6	29	− 3
2. ENGLAND, N.E.	Alnwick Castle	72	45	65·1	50·7	57·4	+ 0·4	108	0	3	0·31	−0·31	*	*	*	*
	Durham	78	43	70·0	48·7	58·6	− 0·2	116	0	2	0·09	−0·58	39·6	+ 3·9	34	+ 3
	Shields	78	46	65·9	51·9	58·4	+ 0·9	115	0	0	—	−0·59	*	*	*	*
	Scarborough Ⓜ	79	50	65·7	54·0	59·4	+ 0·4	122	0	1	0·05	−0·58	*	*	*	*
	York	82	45	72·0	51·0	60·8	+ 1·3	132	0	1	0·12	−0·50	30·9	− 6·1	27	− 5
	Spurn Head	72	53	65·1	55·6	60·0	+ 0·3	126	0	2	0·23	−0·17	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	85	42	72·8	49·9	60·6	+ 0·2	130	0	3	1·29	+0·61	48·4	+ 6·2	43	+ 6
	Yarmouth	70	50	65·3	56·1	60·4	+ 0·2	129	0	3	0·16	−0·48	*	*	*	*
	Geldeston	80	40	70·0	50·5	59·6	− 0·6	123	0	3	0·32	−0·28	51·1	+ 5·6	46	+ 5
	Cambridge	88	46	74·9	51·7	62·5	+ 1·3	144	0	2	0·16	−0·43	48·0	+ 5·2	43	+ 5
	Rothamsted	84	44	72·4	50·3	60·6	+ 0·4	130	0	2	0·17	−0·45	42·4	− 2·9	38	− 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	78	43	68·0	49·8	58·3	− 0·2	114	0	1	0·10	?	31·0	?	27	?
	Bawtry (Hesley Hall)	84	43	73·1	50·9	61·2	+ 1·3	134	0	1	0·04	−0·58	*	*	*	*
	Loughborough	84	45	73·9	52·0	62·2	+ 1·0	141	0	2	0·08	−0·45	*	*	*	*
	Stamford (Ketton Hall)	85	43	74·7	50·3	61·7	+ 1·5	138	0	2	0·12	−0·48	*	*	*	*
	Cheadle Ⓜ	78	44	69·7	51·1	59·8	+ 2·2	125	0	0	—	−0·73	*	*	*	*
	Shirley (near Solihull)	82	46	71·7	51·0	60·6	+ 0·7	130	0	0	—	?	*	*	*	*
	Churchstoke Ⓜ	81	43	71·4	48·3	59·1	+ 1·0	120	0	0	—	−0·56	57·5	+19·2	51	+17
	Hereford Ⓜ												*	*	*	*
	Cirencester	83	46	74·0	52·0	62·2	+ 3·1	141	0	0	—	−0·69	58·3	+17·1	52	+15
	Oxford	83	47	74·0	52·7	62·6	+ 1·8	144	0	2	0·11	−0·49	54·0	+12·2	48	+10
5. ENGLAND, S.	London	87	49	76·4	54·7	64·8	+ 2·7	160	0	2	0·12	−0·42	47·0†	+ 8·2†	42†	+ 7†
	North Foreland	79	54	66·1	57·9	61·7	+ 1·6	138	0	3	0·80	?	*	*	*	*
	Dungeness	72	45	67·3	53·9	60·1	− 0·9	127	0	4	0·23	−0·25	*	*	*	*
	Hastings (St. Leonards)	76	50	68·8	54·1	60·9	+ 0·3	132	0	3	0·63	+0·08	55·6	+ 5·7	51	+ 6
	Southampton	84	50	76·3	54·6	64·7	+ 2·9	159	0	0	—	−0·62	65·7	+19·6	60	+18
	Hurst Castle	78	52	72·7	56·7	64·1	+ 2·6	155	0	0	—	−0·52	*	*	*	*
	Stowell Ⓜ	81	50	74·5	53·6	63·3	+ 4·1	149	0	1	0·01	−0·64	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	72	45	66·6	50·5	58·1	+ 1·0	113	0	5	0·42	−0·78	*	*	*	*
	Glasgow	72	46	66·7	51·2	58·4	+ 1·2	115	0	4	0·19	−0·56	28·3	− 3·7	24	− 3
	Ardrossan	68	48	64·7	52·6	58·2	+ 0·4	113	0	4	0·20	−0·44	*	*	*	*
	Glenlee Ⓢ	71	42	66·2	49·8	57·4	− 0·1	108	0	4	0·16	−0·77	*	*	*	*
	Douglas (Isle of Man)	67	47	65·0	51·7	57·9	+ 0·7	111	0	2	0·17	−0·43	45·5	+ 0·7	40	+ 1
7. ENGLAND, N.W.	Stonyhurst	74	47	67·0	51·1	58·5	+ 0·3	116	0	1	0·03	−0·97	54·5	+16·3	48	+15
	Blackpool Ⓜ	71	43	68·5	52·3	59·8	+ 0·3	125	0	0	—	−0·68	58·9	+18·8	52	+17
	Manchester (Prestwich)	78	46	71·0	50·2	59·9	+ 1·3	125	0	1	0·02	−0·83	50·1	?	44	?
	Liverpool Obsy. (Bidston)	72	50	67·6	55·3	61·0	+ 1·2	133	0	0	—	−0·66	*	*	*	*
	Llandudno Ⓜ	72	52	67·1	55·2	60·7	+ 1·0	131	0	0	—	−0·58	*	*	*	*
	Holyhead	67	54	63·7	54·9	59·0	+ 0·3	119	0	0	—	−0·53	*	*	*	*
8. ENGLAND, S.W.	Llandovery	80	42	75·0	49·4	61·3	+ 2·5	135	0	0	—	−0·90	*	*	*	*
	Pembroke	65	50	63·9	54·3	58·8	+ 0·4	118	0	0	—	−0·57	73·1	+28·0	65	+25
	Clifton	79	50	73·3	56·6	64·4	+ 4·0	157	0	0	—	−0·70	*	*	*	*
	Arlington (N. Devon)	73	50	69·9	52·0	60·3	+ 0·9	128	0	0	—	−1·07	*	*	*	*
	Cullompton Ⓜ	82	48	76·4	51·7	63·2	+ 2·6	148	0	0	—	−0·72	66·5	+27·3	60	+24
	Falmouth	74	54	69·3	56·2	62·3	+ 2·6	142	0	1	0·02	−0·71	84·0	+35·7	76	+32
	Plymouth	73	53	70·1	55·0	62·0	+ 0·9	140	0	0	—	−0·63	76·9	+33·2	70	+30
	Prawle Point	79	53	71·3	55·4	62·8	+ 4·0	146	0	0	—	−0·52	*	*	*	*
9. IRELAND N.	Malin Head	70	53	61·7	55·1	58·2	+ 0·3	113	0	4	0·28	?	*	*	*	*
	Londonderry	76	48	66·5	53·5	59·6	+ 1·4	123	0	6	0·41	−0·35	*	*	*	*
	Edenfel (Omagh)	70	48	63·6	53·0	57·9	+ 1·3	111	0	4	0·78	+0·03	*	*	*	*
	Belmullet	65	50	63·1	54·9	58·7	+ 1·0	117	0	3	0·35	−0·45	*	*	*	*
	Markree Castle	69	45	64·5	52·5	58·1	+ 1·4	113	0	2	0·36	−0·46	26·4	− 2·6	23	− 3
	Armagh	73	41	66·7	49·7	57·6	C·0	109	0	4	0·81	+0·10	22·3	− 9·6	20	− 8
	Donaghadee	69	47	65·3	52·3	58·4	+ 0·9	115	0	5	0·59	−0·04	*	*	*	*
	Edgeworthstown	72	42	65·8	48·9	56·8	− 1·6	104	0	3	0·74	−0·06	*	*	*	*
10. IRELAND, S.	Dublin	77	48	69·3	55·4	61·9	+ 2·1	139	0	3	0·04	−0·53	33·0	− 3·2	29	− 3
	Parsonstown	73	43	66·6	52·6	59·1	+ 0·9	120	0	3	0·17	−0·48	33·5	+ 2·7	30	+ 3
	Kilkenny	73	44	68·0	53·4	60·2	+ 1·6	127	0	2	0·08	−0·50	*	*	*	*
	Roche's Point	70	50	67·6	55·0	60·9	+ 1·4	132	0	0	—	−0·72	*	*	*	*
	Valencia	67	50	64·0	54·7	59·0	+ 0·5	119	0	2	0·43	−0·53	44·2	+ 9·4	39	+ 8
	Killarney	69	44	66·1	50·6	57·8	− 0·3	111	0	2	0·49	?	*	*	*	*
	Foynes	71	50	65·9	54·2	59·6	+ 1·9	123	0	2	0·17	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	56	66·1	57·7	61·6	+ 1·7	137	0	1	0·15	−0·39	84·7	?	77	?
	Jersey	77	52	71·4	56·0	63·2	+ 1·2	148	0	0	—	−0·53	65·0	+13·1	60	+12

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

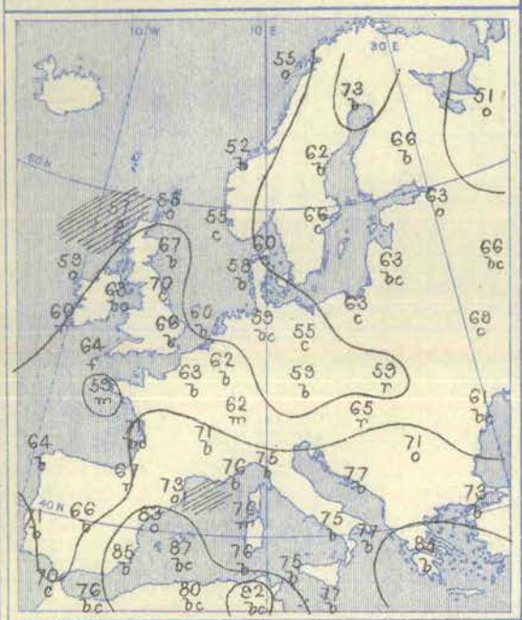
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 12th July.

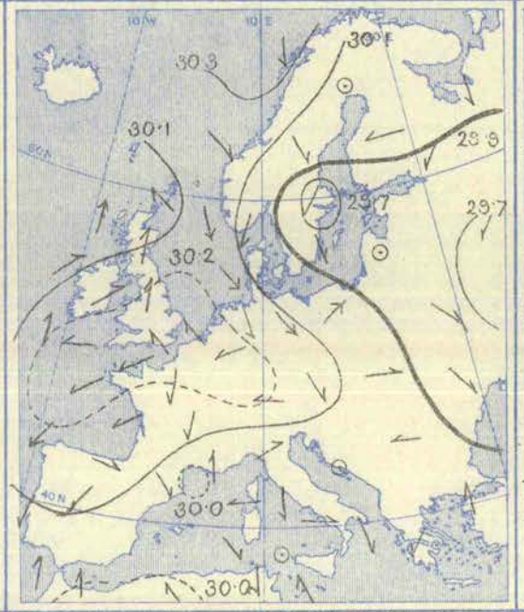
Temperature and Weather.

8 a.m.

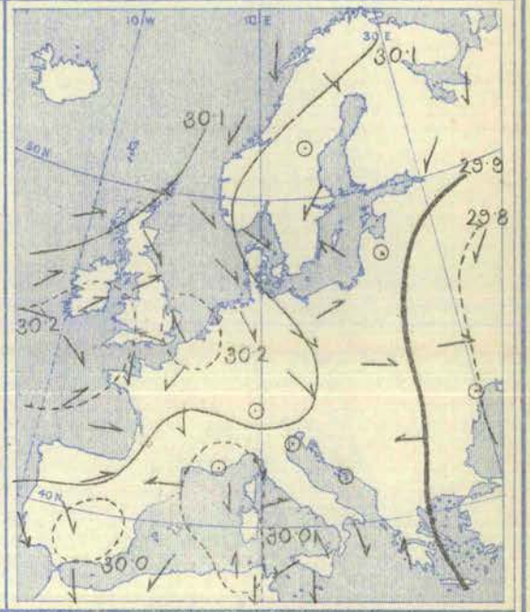


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull on our extreme western and northern coasts, with rain at Malin Head and Valencia (Ireland). Cloudy or dull also over the western parts of Russia, the south-west of France, and the north-east of Spain; rainy at Biarritz and Bilbao, and also at Lemberg. Rain falling later in most parts of Ireland and the west and north of Scotland, as well as over the southern parts of Russia; thunderstorm occurring at Moscow, and lightning seen at Lyons.

Temperature fallen in Germany and the east and south of France, but risen elsewhere. Morning readings highest, 92° at La Calle, 87° at Palma, 84° at Athens, and 82° at Sfax; above 75° at most of the Mediterranean and Adriatic stations, and above 70° in Lapland. Lowest, (1) 52° at Christiansund, and 55° at Bodö, Skudesnaes, and Sumburgh Head; (2) 55° at Berlin, and 58° at Münster and Swinemunde. Rising during day to 75° and upwards on our north-east coasts, and to between 81° and 83° in many parts of England. Exceeding 80° also over the northern parts of Sweden, and exceeding 85° over southern Europe generally, the highest reading of all being 95° at Gap, Cape Béarn, and Florence.

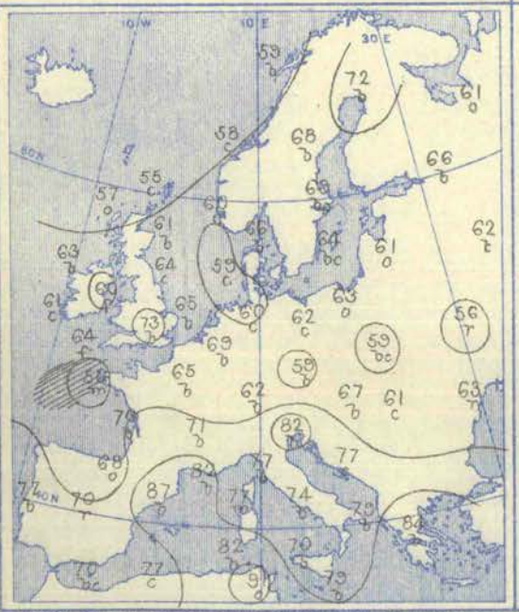
Wind Southerly in the west and north of our Islands, and fresh in force on our extreme north-west coasts; light from the Eastward or North-Eastward over the south of England and the greater part of France and Spain. Light to fresh from the North-Westward over northern and central Europe generally, but Easterly or North-Easterly in the north of Russia. Variable, but chiefly Northerly, in Italy. Subsequently veering to the South-Westward or Westward on our western and northern coasts; shifting also to the same quarters in the west of France.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying off the north-west of Norway; 30·2 ins. and upwards in another system over England, the Netherlands, the north of France, and the western and southern parts of Germany. Lowest, 29·7 ins. and less in a well-marked depression over the northern parts of the Baltic, and also in a shallow area over central Russia; 30·0 ins. and less in a shallow disturbance off the west of Scotland. Baltic depression subsequently moving southwards and filling up; Scotch disturbance travelling away to the northward.

Monday, 13th July.

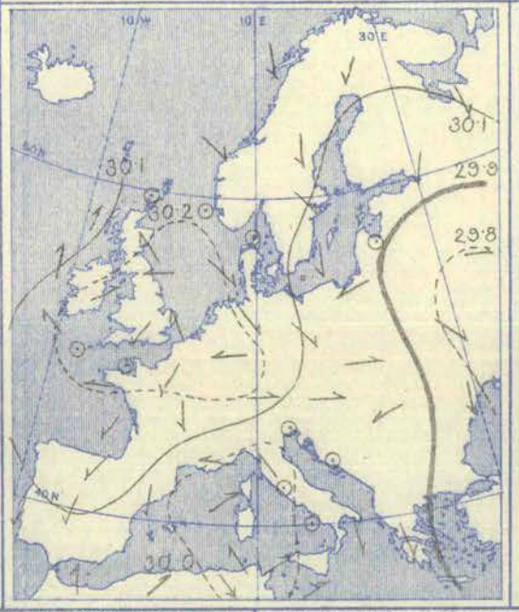
Temperature and Weather.

8 a.m.

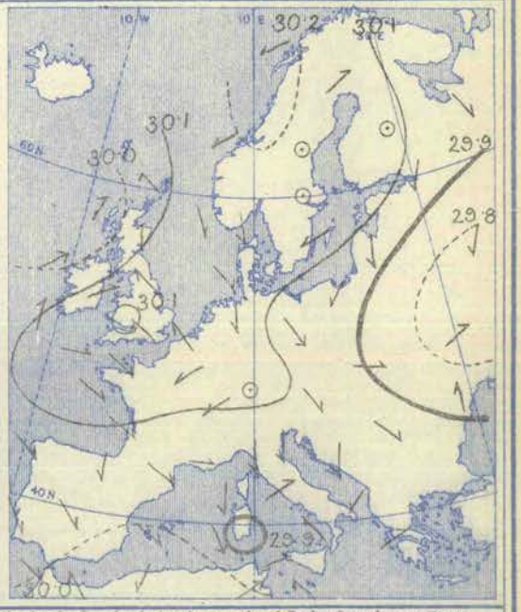


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but foggy on the west and south-west coasts of Great Britain. Dull and rainy in the south of Russia, and also at Madrid. No important change occurring over western Europe during day, but rain falling at night in Ireland and the west and north of Scotland. Solar halo seen at Oxford in afternoon. Rain falling in some parts of Austria and the south of Russia, and thunderstorm occurring at Nice.

Temperature fallen in the north-eastern parts of Great Britain, and also over central France, but risen in most other localities. Morning readings highest, (1) 91° at Tunis, 88° at Palma, and 87° at Barcelona (above 75° over southern Europe and the Mediterranean generally); (2) 73° in London, and 72° at Jersey; (3) 72° at Haparanda and Uleaborg. Lowest, (1) 55° at Sumburgh Head, and 57° at Stornoway; (2) 56° at Warsaw, and 58° at Cracow. Rising during day to 80° and upwards at most of the English stations, and to 86° in London and at Cambridge. Exceeding 85° in the north of Sweden, and also over southern Europe generally; reaching 99° at Trieste, and 102° at Pesaro.

Wind light and variable over England; Southerly in the north of Ireland: calm or South-Westerly in Scotland. Light to moderate from the Northward or North-Westward over Scandinavia, Denmark, Germany, and the western and southern parts of Russia; North-Easterly over the Gulf of Finland. Easterly or North-Easterly over Belgium and the central parts of France, but Westerly in the south of France; North-Easterly over the Spanish Peninsula; variable in Italy. Southerly and South-Westerly breezes setting in later over the whole of Ireland and Scotland, and blowing strongly in the extreme west; wind shifting to the North-Westward or Northward over the Bay of Biscay and the Spanish Peninsula.

Barometer highest, 30·2 ins. and upwards over England, the North Sea, the Netherlands, western Germany, and the north of France; 30·1 ins. and upwards in an anticyclone covering nearly the whole of western and northern Europe. Lowest, 29·8 ins. and less in a large shallow area over the central and southern parts of Russia. Anticyclone giving way gradually during day; shallow depression skirting our extreme north-west coasts, and barometer falling over western Europe generally.

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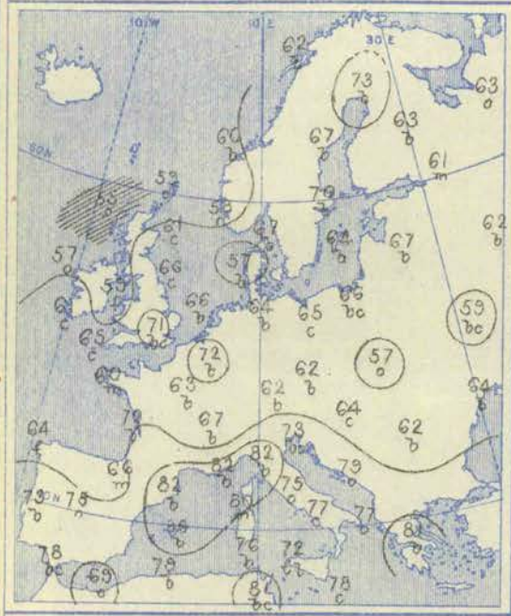
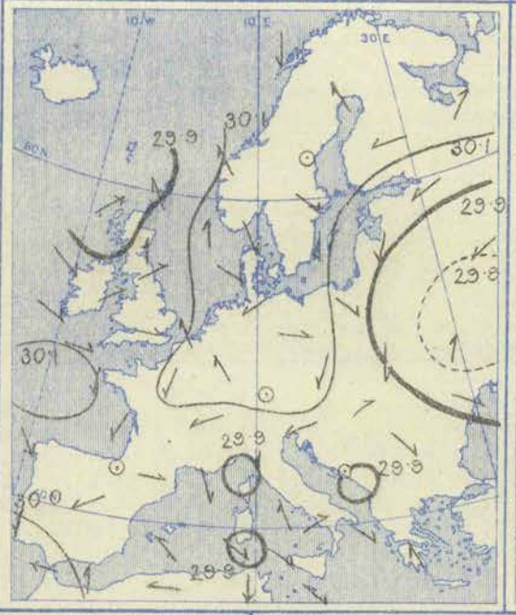
Tuesday, 14th July.

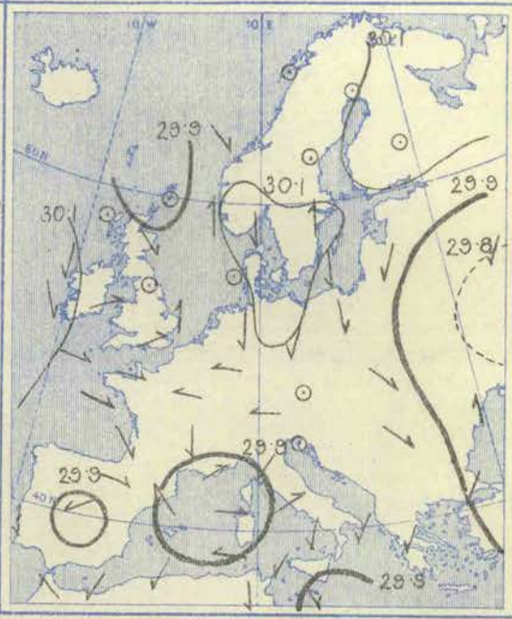
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over England and the greater part of the Continent, but cloudy or dull in the south of Italy, with a thunderstorm at Palermo. Dull in Ireland and Scotland, with rain in many places. Weather improving later in Ireland and Scotland, but becoming dull and unsettled over England, with thunderstorms or thunder only in the east and south-east. Lightning seen at Nice in the evening.

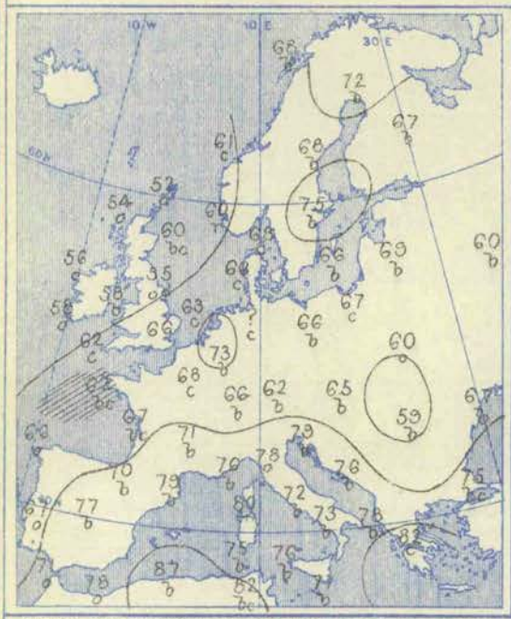
Temperature risen in Denmark and Germany, but changed irregularly elsewhere. Morning readings highest, (1) 86° at Palma, and 82° at Barcelona, Nice, and Leghorn; (2) 73° at Ulcaborg, and 71° at Haparanda; (3) 72° at Brussels, and 71° in London (above 65° over the greater part of England). Lowest, 55° at Stornoway, and 57° at Fanö, Malin Head, and Belmullet. Daily maxima below 65° at many of our western and extreme northern stations, but thermometer exceeding 85° in the east and south of England, and reaching 88° at Cambridge. Exceeding 80° in some parts of Sweden and Denmark; exceeding 85° in most of the southern countries, and reaching 102° at San Fernando, and 104° at Madrid.

Wind light from West or South-West in Ireland, and from South in all but the extreme southern parts of Great Britain, as well as on the Norwegian coasts. Variable in the south of England, and also in France and Italy; Easterly or North-Easterly in Spain. Calm in the north of Sweden; light from East or North-East over the northern and central parts of Russia, and from North-West over Denmark, eastern Germany, Austria, and the south of Russia. Subsequently shifting to North-West in most parts of the United Kingdom, and also in the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in Finland; 30·1 ins. and upwards in a large anticyclone extending from the northward over the whole of Scandinavia, Denmark, Germany, the Netherlands, and the north-east of France. Lowest, 29·8 ins. and less in a shallow depression over the southern parts of Russia; 29·9 ins. and less in another shallow system over the west and north of Scotland, and also in two small disturbances lying respectively over the Gulf of Genoa and over Sardinia. Scotch depression subsequently moving north-eastwards; "V" shaped secondary system developed over England.

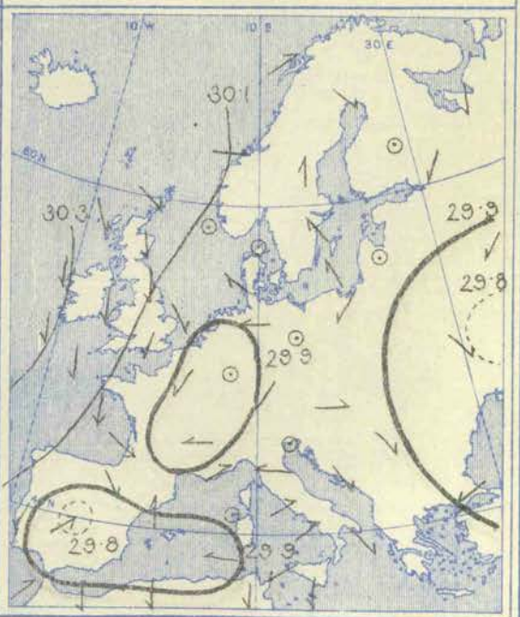
Wednesday, 15th July.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.

Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but cloudy on our extreme western and northern coasts, and also in the east and south-east of England; slight rain falling at Shields and Dungeness, with thunder at the latter station. Rain falling during day over the Netherlands, Germany, the north-east of France, and the east and south-east of England—heavily in places. Thunderstorms occurring in the south-east of England, as well as at some of the French stations; lightning seen over the Channel at night.

Temperature fallen in our Islands, and also in Italy and the south of Spain, but risen in most other localities. Morning readings highest, (1) 87° at Algiers, 82° at Athens and La Calle, and 80° at Patras; (2) 75° at Stockholm, 72° at Haparanda, and 71° at Ulcaborg; (3) 73° at Brussels, 71° at the Helder, and 69° at Hurst Castle. Lowest, 52° at Sumburgh Head, 53° at Malin Head, 54° at Stornoway, and 55° at Shields. Daily maxima below 65° at many of our own western and northern stations, but thermometer exceeding 75° in the extreme south of England. Exceeding 80° in many parts of Sweden, Denmark, and north Germany; exceeding 90° at some of the Spanish and southern French stations.

Wind light to fresh from the Northward or North-Westward over our Islands and the western parts of France and the Spanish Peninsula. Light from the Eastward or South-Eastward over Denmark, the Netherlands, western Germany, and the eastern and central parts of France. Calm or variable in Scandinavia; North-Easterly over northern and central Russia; North-Westerly over Poland and Austria; variable in Italy and Greece. Subsequently veering to the North-Eastward in the south-east of England; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the west and south of Ireland; 30·1 ins. and upwards in another system over northern Russia. Lowest, 29·8 ins. and less in a large shallow area over the southern parts of Russia; 30·0 ins. and less in two other systems—one lying off the west of Norway, and the other over Spain, France, the Netherlands, and the eastern parts of England. Anticyclone in west subsequently spreading eastwards, but depression over France and Spain becoming rather more pronounced.

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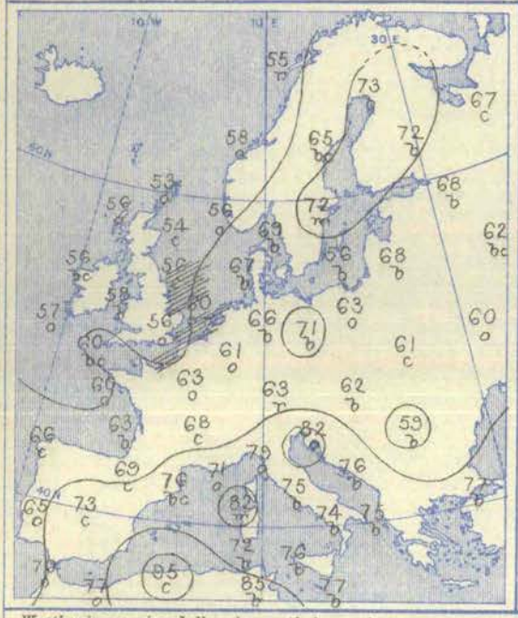
Thursday, 16th July.

Temperature and Weather.

8 a.m.

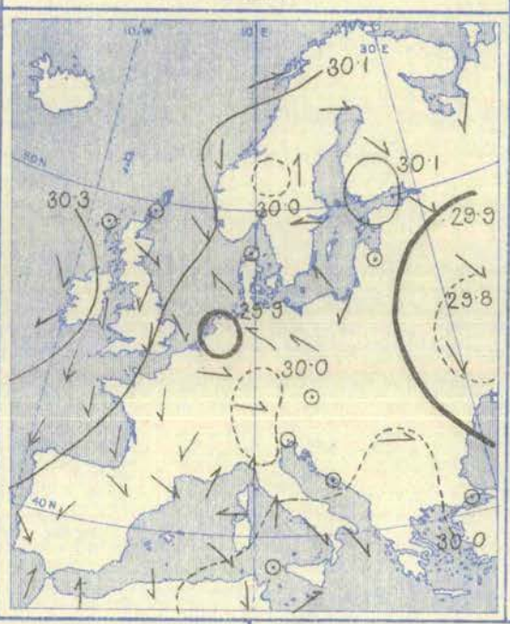


Weather in morning dull and unsettled over the eastern and central parts of England, and also over the Netherlands, central France, and the western and southern parts of Germany, with rain in many places. Fair or fine in most other parts of Europe, but dull in the north of Scotland and the west of Norway, with rain at Bodö. Considerable quantities of rain falling later in some parts of Germany and the north-east of France; thunder and lightning occurring at several of the French stations.

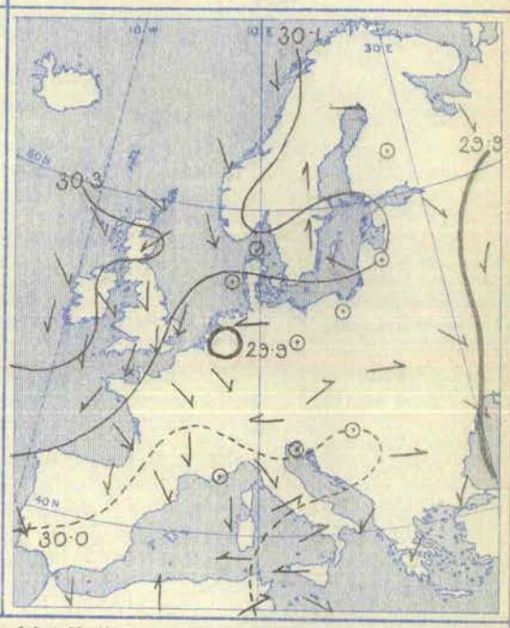
Temperature fallen over England, France, Spain, and the Netherlands, and also in Scandinavia, changed irregularly elsewhere. Morning readings highest, (1) 95° at Algiers, 85° at La Calle, 82° at Sfax and Trieste; (2) 73° at Uleaborg, and 72° at Kuopio and Stockholm. Lowest, 53° at Sumburgh Head and Nairn, and 54° at Aberdeen, Loughborough, Oxford, and Cambridge; below 60° over the greater part of our Islands. Remaining below 60° all day at several of our northern, eastern, and south-eastern stations; reaching 75° or more in Sweden, and 85° or more in Denmark, as well as in most parts of southern Europe; touching 95° at Cape Béarn.

Barometer and Wind.

8 a.m.



6 p.m.



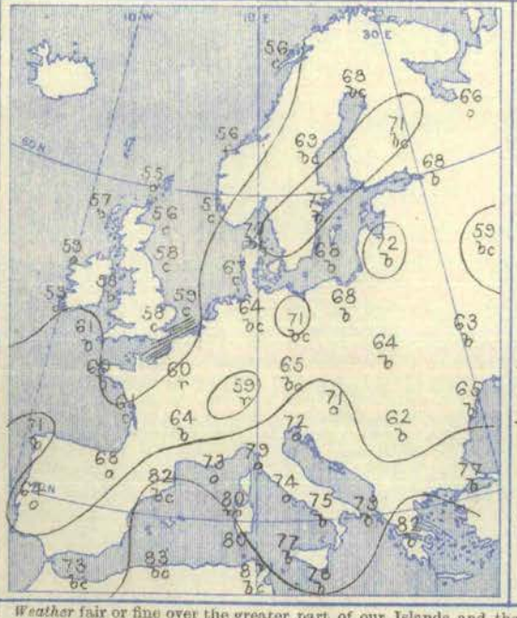
Wind North-Westerly in Scotland, but Northerly over England, Ireland, France, and Spain, and fresh to strong in force on our east and south-east coasts. Light from the South-Eastward over Denmark, north Germany, and the south of Sweden. Variable over the northern parts of Scandinavia. Light from the Northward (North-West to North-East) in Russia; calm or variable over Austria and south Germany; Southerly over northern Italy; North-Westerly in the south of Italy. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards in an anticyclone extending over Ireland from the Atlantic. Lowest, 29·8 ins. and less in a large shallow area over the central and southern parts of Russia; 29·9 ins. and less in a small depression over Holland and the neighbouring parts of Germany. Anticyclone subsequently spreading very slowly northwards and eastwards, and barometer rising over our Islands generally. Depression over Holland remaining almost stationary.

Friday, 17th July.

Temperature and Weather.

8 a.m.

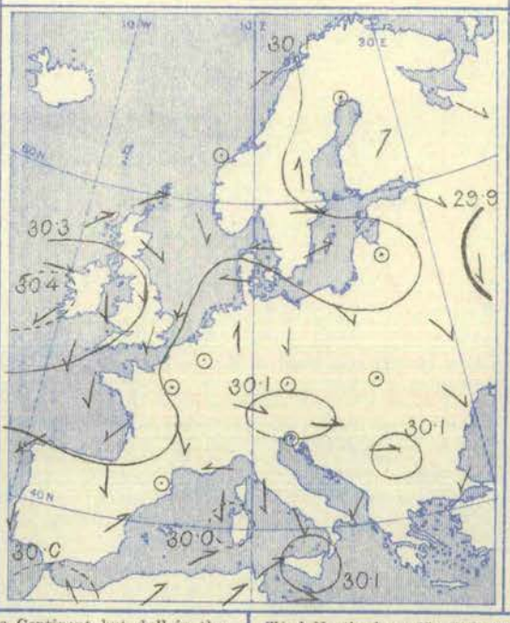


Weather fair or fine over the greater part of our Islands and the Continent, but dull in the north of Scotland, and also over the eastern and central parts of England. Dull also over Austria, south Germany, and the northern parts of France, with rain at Munich, Paris, and Havre. Sky clearing later over England, but rain setting in over Scotland and the north of Ireland, as well as in the west of Norway. Heavy rain falling at some of the German and Austrian stations; lightning seen at Nice in evening.

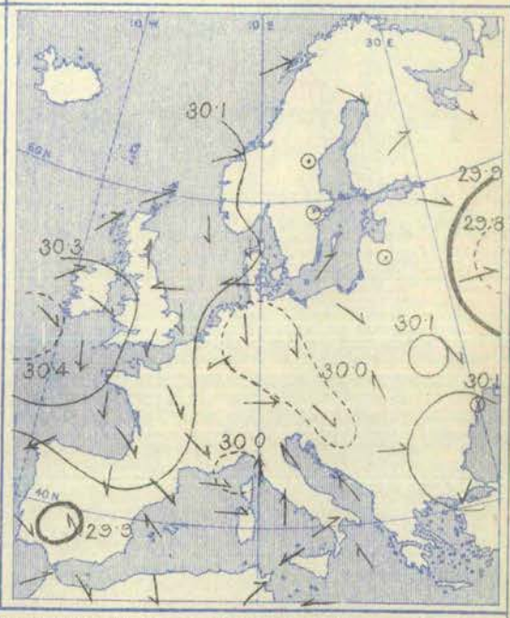
Temperature changed very irregularly. Morning readings highest, 87° at La Calle, 84° at Sfax and Aumale, 83° at Algiers, and 82° at Barcelona and Athens; above 75° at the Mediterranean and Adriatic stations generally, and above 70° at several stations over Finland and the Baltic. Lowest, 54° at York, and 55° at Sumburgh Head, Loughborough, and Oxford. Daily maxima below 65° at most of our own coast stations, and below 70° over central England, but thermometer touching or exceeding the latter point in some parts of Ireland and Scotland. Exceeding 80° in Denmark and Sweden, and reaching 88° at Fanö. Exceeding 85° in many parts of southern Europe, and reaching 97° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



Wind Northerly or North-Easterly over the greater part of our Islands, France, and Spain, and fresh in force on our east and south-east coasts; light from the Eastward or South-Eastward over Denmark and north Germany. Westerly or South-Westerly on our extreme north and north-west coasts. Variable over the northern parts of Scandinavia, but Westerly or North-Westerly in the south. Light from the Northward or North-Westward in Russia; calm or variable over Italy, Austria, and south Germany. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards in the south-west of Ireland; 30·3 ins. and upwards in an anticyclone covering the whole of Ireland, Wales, and the north of England. Lowest, 29·9 ins. and less in a large shallow depression over central Russia; 30·0 ins. and less in three other shallow systems lying respectively over Morocco, over Sardinia, and over Oldenburg. Barometer falling later in the west and north of our Islands, but rising in other parts of western Europe. Depression forming over central Spain.

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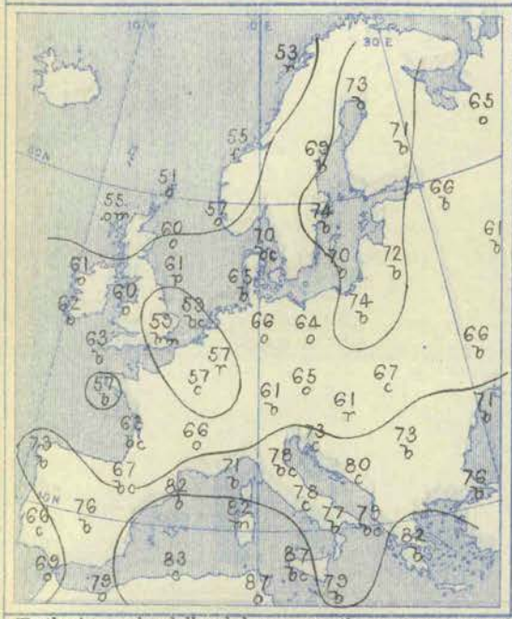
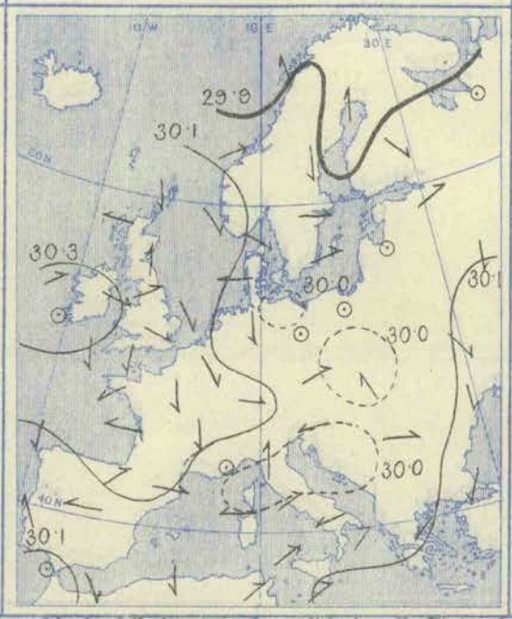
Saturday, 18th July.

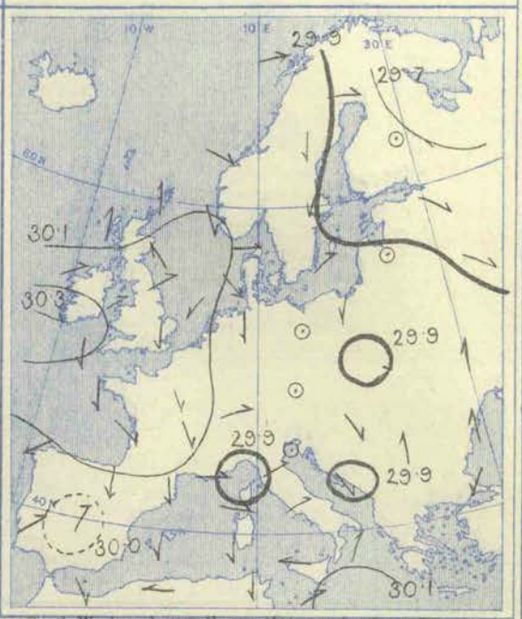
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and showery over the northern parts of our Islands; dull also over Norway, the Netherlands, Germany, and Austria, with rain at Bodö, Brussels, Wiesbaden, and Vienna. Fine in nearly all other parts of Europe. No important change occurring over western Europe during day, but thunderstorms occurring over south Germany and the western parts of Austria, as well as at Nice.

Temperature risen in our Islands, as well as in many parts of south-eastern Europe, but changed irregularly elsewhere. Morning readings highest, 87° at Palermo and Tunis, 86° at Sfax, 83° at Algiers, and 82° at Barcelona, Athens, and Patras; above 70° over southern Europe generally, as well as over the Baltic and some parts of Finland and Sweden. Lowest, 51° at Sumburgh Head, 53° at Bodö, and 55° at Christiansund, Stornoway, Wick, and York. Rising during day to between 70° and 75° in many parts of Great Britain, and reaching 77° in London. Exceeding 80° in central Sweden, and also in the south of France; exceeding 85° in Spain, and exceeding 90° in southern Italy; the highest reading of all being 106° at Palermo.

Wind light from the Westward or South-Westward over the northern parts of our Islands generally, but Northerly in the south, and also over the Netherlands and central France; Easterly or North-Easterly in the west of France. Westerly over Finland and the southern parts of Scandinavia; variable in Germany, and also in Italy; Westerly in Austria; Northerly over the central and southern parts of Russia. Variable over the Spanish Peninsula. Shifting later to the Southward in the north of Scotland, and to the Westward or North-Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the south-west of our Islands; 30·1 ins. and upwards in another system over the Black Sea and the southern parts of Russia. Lowest, 29·9 ins. and less in two shallow depressions—one lying off the north-west of Norway, and the other over the Gulf of Bothnia; 30·0 ins. and less in other shallow systems lying respectively over Poland and over the Gulf of Genoa and the northern parts of Italy and the Adriatic. Low pressure systems in north subsequently spreading south-eastwards; shallow depression appearing off north-west of Scotland in evening.

GENERAL NOTES.

During the early part of the week a large anticyclone covered the greater part of Europe—its central portion being situated at first over England and France, but afterwards over Scandinavia. The winds were light in force, and somewhat variable in direction, and the weather fine and warm, the temperatures registered over England between the 12th and 14th being mostly above 80°, and in some cases above 85°.

After the 13th, however, the anticyclone broke up, and a shallow depression appeared over the north of Scotland, the weather in the north becoming unsettled and rainy. Next day a "V" shaped secondary disturbance was developed over England, the latter system eventually moving eastwards to Holland and Germany, and becoming more clearly defined. The barometer in the meantime rose steadily in our Islands, and cold Northerly winds set in both there and in France, the maximum temperatures registered over England on the 16th being in many places about 30° lower than those observed two days earlier.

Later on a new anticyclone spread in from the westward and gradually embraced nearly the whole of Europe. The conditions noticed towards the close of the week were therefore very similar to those which prevailed at first, the weather being generally fair and dry, with a steady rise of temperature over our Islands and France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	45·2	+14·0	39	+ 12	SOUTHPORT	51·3	?	45	?
OSWALDKIRK (Yorkshire)	33·5	- 0·9	29	- 1	MANCHESTER (Oldham Road)	46·1*	?	41*	?
WORKSOP	22·0	-12·1	20	- 11	COLWYN BAY	60·2	?	53	?
THURCASTON (Leicestershire)	39·9	+ 3·3	35	+ 3	TENBY	72·1*	+27·1	64*	+ 24
MARGATE	46·0	+ 3·1	42	+ 3	NEWQUAY	73·0	+25·5	66	+ 23
WESTBOURNE (Sussex)	68·6*	+21·6	62*	+ 19	TORQUAY	79·7*	+33·7	72*	+ 30
BRIGHTON	58·2	+ 9·0	53	+ 7	ARLEY COTTAGE (County Cavan)	?27·0	- 6·1	?24	- 6
EASTBOURNE	55·9	+ 6·5	51	+ 6	GUERNSEY	73·3*	+20·3	67*	+ 18

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Apr. 11th, 1896.	Tenby	—	—	—	—	—	—	—	—	—	—	—	26·8	-16·3	29	-18
,, ,, ,, ,, ,,	Margate	—	—	—	—	—	—	—	—	—	—	—	15·3	-18·6	16	-21
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	25·2	-14·4	27	-15
,, ,, ,, 18th, ,,	York	—	—	—	—	—	—	—	—	—	—	—	35·7	+ 3·6	37	+ 4
,, ,, ,, ,, ,,	Killarney	58	37	54·9	43·4	48·9	+ 1·7	43	0	6	0·36	?	—	—	—	—
,, ,, ,, 25th, ,,	York	—	—	—	—	—	—	—	—	—	—	—	37·2	+ 3·0	37	+ 3
,, ,, ,, ,, ,,	Churchstoke	66	34	61·4	38·2	49·3	+ 3·9	67	11	1	0·02	-0·36	44·6	+ 6·6	43	+ 6
,, ,, May 9th, ,,	York	—	—	—	—	—	—	—	—	—	—	—	58·9	+19·2	55	+18
,, ,, ,, 16th, ,,	Churchstoke	77	36	70·1	40·0	54·2	+ 5·8	24	6	1	0·11	-0·28	80·8	+38·9	75	+36
,, ,, ,, 23rd, ,,	Manchester (Oldham Rd.)	—	—	—	—	—	—	—	—	—	—	—	27·5	?	25	?
,, ,, ,, 30th, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	80·6	+29·7	72	+ 27
,, ,, June 6th, ,,	Edgeworthstown	69	35	63·2	47·4	54·7	+ 2·0	89	0	5	0·55	-0·14	—	—	—	—
,, ,, ,, 13th, ,,	Edgeworthstown	78	43	68·4	48·3	57·7	+ 2·2	110	0	?	0·63	-0·02	—	—	—	—

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 30.] *Third Series.* WEEK ENDING SATURDAY, JULY 25TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 176.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	38	60·3	49·0	54·2	1 below	85	0	0	0	1245	+257	305	-318
	1. SCOTLAND, EAST	78	35	64·1	50·2	56·7	0 (average)	103	0	0	0	1502	+273	408	-241
	2. ENGLAND, N.E.	86	45	70·6	54·0	61·8	3 above	139	+25	0	0	1586	+311	327	-222
	3. ENGLAND, EAST	88	42	75·5	53·5	63·8	3 above	153	+27	0	0	1786	+264	388	-229
	4. MIDLAND COUNTIES	86	43	73·4	51·3	61·6	2 above	137	+16	0	0	1854	+306	372	-247
	5. ENGLAND, SOUTH	88	47	74·1	55·7	64·3	3 above	156	+24	0	0	1972	+320	237	-240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	40	62·4	52·1	56·9	1 below	104	-1	0	0	1593	+293	234	-228
	7. ENGLAND, N.W.	80	46	67·3	54·7	60·6	1 above	130	+15	0	0	1768	+378	201	-258
	8. ENGLAND, S.W.	83	44	69·6	54·5	61·5	2 above	137	+17	0	0	1977	+403	155	-206
	9. IRELAND, NORTH	72	47	63·1	52·9	57·7	0 (average)	110	+4	0	0	1719	+321	162	-233
	10. IRELAND, SOUTH	75	50	65·8	55·3	60·2	1 above	127	+13	0	0	1994	+393	89	-210
	—CHANNEL ISLANDS	82	53	72·0	58·6	64·8	3 above	160	+29	0	0	2252	+490	39	-109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 176.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	17	9 more	141	+6	30·6	+4·2	29	-4	18	-3	661	-75	24	-3
	1. SCOTLAND, EAST	5	18	10 more	109	0	13·5	-2·6	27	-6	24	-5	870	+31	32	+1
	2. ENGLAND, N.E.	4	8	2 more	87	-16	8·9	-4·4	43	+8	38	+7	873	+46	32	+2
	3 ENGLAND, EAST	2	1	6 less	89	-11	9·8	-3·5	48	+4	43	+3	1020	+52	38	+2
	4. MIDLAND COUNTIES	4	5	2 less	86	-12	9·8	-4·8	43	+3	39	+3	927	+54	34	+2
	5. ENGLAND, SOUTH	1	1	5 less	78	-16	8·2	-6·2	59	+13	54	+11	1053	+46	39	+2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	20	11 more	116	+1	23·2	-1·7	22	-14	20	-13	884	-4	32	0
	7. ENGLAND, N.W.	4	15	7 more	101	-5	16·3	-0·5	40	+5	36	+4	898	+81	35	+2
	8. ENGLAND, S.W.	4	12	4 more	84	-23	11·7	-7·8	43	+4	44	+3	1150	+89	43	+4
	9. IRELAND, NORTH	6	21	12 more	120	-4	20·6	+1·6	18	-11	16	-11	792	-40	29	-2
	10. IRELAND, SOUTH	5	19	11 more	100	-13	17·2	-3·4	27	-6	24	-5	923	-11	34	0
	—CHANNEL ISLANDS	4	7	1 more	92	-21	8·5	-7·7	68	+20	63	+18	1278	+76	47	+2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued fine, dry, and very warm during the earlier days of the period at all except our extreme northern and north-western stations. Later on, unsettled rainy conditions extended from the westward to all but our extreme south-eastern districts, the rain being very heavy in the west and north towards the end of the week. A sharp thunderstorm was experienced over the north-east of England on the 24th.

Temperature was very high during the early part of the week, but subsequently fell decidedly—especially in the north—with the result that the average for the week was a little below the mean value in the north and west of Scotland, and only equal to it in Scotland E. and Ireland N.; in all the English districts, however, as well as in Ireland S., it was again somewhat above the normal. The highest of the maxima were registered, as a rule, on the 21st, and varied from 88° in England E. and S., and 86° in England N.E. and the Midland counties, to 75° in Ireland S., 72° in Ireland N. and Scotland N., and 68° in Scotland W. The lowest of the minima, which were recorded during the latter part of the week, ranged from 35° in Scotland E., and 38° in Scotland N., to 47° in England S. and Ireland N., to 50° in Ireland S., and to 53° in the Channel Islands.

Rainfall was again considerably less than the mean in England E. and S. and the Midland counties, but exceeded it in all other districts. In Scotland, Ireland, and England N.W. the excess was very large.

Bright Sunshine was very deficient in the Irish and Scotch districts, but exceeded the mean in England. The percentage of the possible duration ranged from 63 in the Channel Islands, and 54 in England S., to 24 in Scotland E. and Ireland S., to 18 in Scotland N., and to 16 in Ireland N.

Barometer and Wind.—At the commencement of the week an anticyclone was passing eastwards over all the more southern parts of the Kingdom, while depressions were moving in a similar direction outside our north-western and northern coasts, the winds being consequently light or moderate from the Westward and South-Westward. By the morning of Tuesday a shallow "V shaped" disturbance covered the whole of England, and the winds had become more variable in direction. This system subsequently passed away north-eastwards, and the barometer over our Islands rose somewhat, with a moderate wind from the Westward. By Friday, however, a complex area of low pressure had appeared over Ireland and the central parts of Great Britain, and on Saturday a well-defined and rather deep depression lay over the St. George's Channel. This latter system caused a decided increase of wind in all districts; in the north-east of Scotland the Easterly wind attained the force of a gale.

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II.—DATA from which the SUMMARY on page 175 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	44	57·6	47·7	52·3	− 0·7	72	0	7	1·01	+0·41	*	*	*	*
	Stornoway	61	44	58·4	48·7	53·2	− 1·4	78	0	5	2·25	+1·53	25·6	− 4·4	22	− 4
	Wick	72	38	62·3	48·4	54·9	− 0·2	90	0	6	2·03	+1·45	*	*	*	*
	Glencarron Ⓢ	62	46	58·9	48·2	53·2	− 1·4	78	0	6	2·30	+0·87	*	*	*	*
	Fort Augustus Ⓢ	71	41	63·6	50·1	56·4	+ 0·1	101	0	6	0·97	+0·22	14·7	− 3·0	13	− 3
	Fort William Ⓢ	63	42	60·7	50·7	55·4	− 1·1	94	0	7	1·89	+0·64	20·3	− 5·2	18	− 3
1. SCOTLAND, E.	Nairn	75	40	63·7	49·4	56·1	− 1·2	99	0	7	1·55	+0·87	*	*	*	*
	Aberdeen	78	43	64·0	50·6	56·8	− 0·2	104	0	6	1·87	+1·18	23·5	−11·4	20	−10
	Braemar Ⓢ	69	35	60·0	47·9	53·5	− 1·0	81	0	5	2·18	+1·51	25·0†	− 4·8†	22†	− 4†
	Ochtertyre Ⓢ	69	40	64·3	48·7	56·0	− 2·2	98	0	5	2·07	+1·24	*	*	*	*
	Leith	77	48	66·4	54·0	59·8	+ 1·2	125	0	5	1·09	+0·41	*	*	*	*
	Marchmont Ⓢ	72	43	65·9	50·6	57·7	+ 1·2	110	0	4	1·79	+0·95	37·3	+ 1·7	32	0
2. ENGLAND, N.E.	Alnwick Castle	73	48	67·4	53·9	60·2	+ 3·0	127	0	4	1·07	+0·37	*	*	*	*
	Durham	83	45	71·7	51·8	61·1	+ 2·2	134	0	5	1·42	+0·68	41·4	+ 6·4	36	+ 5
	Shields	80	47	70·0	53·0	60·9	+ 3·0	132	0	3	1·68	+1·03	*	*	*	*
	Scarborough Ⓜ	83	47	70·7	55·1	62·4	+ 3·3	143	0	4	0·19	−0·51	*	*	*	*
	York	86	48	73·6	52·9	62·5	+ 2·9	144	0	4	0·62	−0·05	43·3	+ 6·8	39	+ 6
	Spurn Head	75	53	70·4	57·3	63·4	+ 3·7	150	0	2	0·02	−0·41	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	84	43	76·6	53·9	64·5	+ 3·9	158	0	3	0·09	−0·64	49·2	+ 7·2	44	+ 6
	Yarmouth	72	49	69·1	56·4	62·3	+ 1·8	142	0	1	0·10	−0·57	*	*	*	*
	Geldeston	85	45	76·8	52·4	63·8	+ 3·4	153	0	1	0·09	−0·56	55·5	+10·4	50	+ 9
	Cambridge	88	44	79·1	53·0	65·1	+ 3·5	162	0	2	0·06	−0·56	47·8	+ 5·3	43	+ 5
	Rothamsted	84	42	76·1	51·7	63·1	+ 2·6	148	0	1	0·02	−0·64	39·8	− 5·2	36	− 6
4. MIDLAND COUNTIES	Harrogate Ⓜ	79	46	69·4	52·5	60·4	+ 1·6	129	0	5	0·90	?	45·3	?	40	?
	Bawtry (Hesley Hall)	86	44	76·6	48·0	61·3	+ 1·1	135	0	3	0·29	−0·36	*	*	*	*
	Loughborough	83	46	74·7	53·0	63·1	+ 1·5	148	0	3	0·36	−0·19	*	*	*	*
	Stamford (Ketton Hall)	84	43	76·7	50·9	62·9	+ 1·6	146	0	3	0·16	−0·47	*	*	*	*
	Cheadle Ⓜ	80	46	69·6	52·4	60·4	+ 2·5	129	0	4	0·59	−0·16	*	*	*	*
	Shirley (near Solihull)	82	47	72·6	51·8	61·5	+ 1·3	137	0	4	0·51	?	*	*	*	*
	Churchstoke Ⓜ	82	45	70·0	50·2	59·4	+ 1·3	122	0	5	1·13	+0·53	37·4	− 0·2	34	0
	Hereford Ⓜ	?	45	?	50·8	?	?	?	?	4	0·38	−0·22	*	*	*	*
	Cirencester	84	46	75·0	49·6	61·4	+ 2·2	136	0	4	0·22	−0·52	52·9	+11·9	48	+11
	Oxford	83	50	75·6	54·1	64·1	+ 3·2	155	0	4	0·18	−0·45	44·4	+ 2·4	40	+ 1
5. ENGLAND, S.	London	88	47	79·1	55·6	66·5	+ 4·2	172	0	0	—	−0·59	43·3†	+ 4·5†	39†	+ 3†
	North Foreland	80	54	72·9	57·7	64·8	+ 4·1	160	0	0	—	?	*	*	*	*
	Dungeness	77	48	72·1	55·4	63·2	+ 1·6	148	0	0	—	−0·49	*	*	*	*
	Hastings (St. Leonards)	80	54	73·5	56·9	64·6	+ 3·7	158	0	0	—	−0·60	66·7	+17·2	61	+16
	Southampton	86	51	75·9	55·5	65·0	+ 3·0	161	0	1	0·13	−0·55	57·7	+11·7	53	+10
	Hurst Castle	77	53	72·4	57·3	64·3	+ 2·4	156	0	1	0·11	−0·47	*	*	*	*
	Stowell Ⓜ	82	48	72·7	51·6	61·4	+ 2·1	136	0	4	0·65	−0·03	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	41	61·2	50·6	55·5	− 1·7	95	0	7	1·99	+0·76	*	*	*	*
	Glasgow	67	48	61·8	52·2	56·7	− 0·5	103	0	5	1·47	+0·64	19·1	−10·7	17	−10
	Ardrossan	64	49	61·3	54·1	57·5	− 0·4	109	0	5	1·70	+0·97	*	*	*	*
	Glenlee Ⓢ	68	40	64·9	51·1	57·5	0·0	109	0	5	2·77	+1·73	*	*	*	*
	Douglas (Isle of Man)	68	46	62·6	52·6	57·3	− 0·9	107	0	5	2·17	+1·47	25·0	−17·5	22	−16
7. ENGLAND, N.W.	Stonyhurst	73	49	66·0	53·5	59·3	+ 1·1	121	0	5	1·15	+0·05	45·1	+ 9·1	40	+ 8
	Blackpool Ⓜ	72	49	67·2	54·2	60·3	+ 0·7	128	0	4	2·23	+1·50	38·0	− 0·5	34	0
	Manchester (Prestwich)	80	46	69·6	52·8	60·6	+ 1·7	130	0	5	1·01	+0·09	38·5	?	34	?
	Liverpool Obsy. (Bidston)	73	52	68·3	55·6	61·5	+ 1·6	137	0	5	1·38	+0·64	*	*	*	*
	Llandudno Ⓜ	73	56	68·9	57·2	62·6	+ 2·3	144	0	4	1·02	+0·39	*	*	*	*
	Holyhead	68	51	63·9	54·9	59·1	+ 0·5	120	0	3	1·94	+1·36	*	*	*	*
8. ENGLAND, S.W.	Llandovery	83	44	73·1	50·0	60·8	+ 2·1	132	0	5	0·97	−0·02	*	*	*	*
	Pembroke	68	55	65·0	56·6	60·5	+ 1·9	130	0	4	2·48	+1·83	44·5	+ 1·5	40	+ 1
	Clifton	82	55	71·2	57·3	63·8	+ 3·2	153	0	4	0·46	−0·35	*	*	*	*
	Arlington (N. Devon)	79	49	69·7	52·6	60·6	+ 2·2	130	0	5	0·91	−0·29	*	*	*	*
	Cullompton Ⓜ	81	45	72·3	50·1	60·4	− 0·3	129	0	3	1·49	+0·77	43·9	+ 5·5	40	+ 4
	Falmouth	72	54	69·4	56·5	62·5	+ 2·2	144	0	4	1·19	+0·41	46·1	− 0·4	43	− 1
	Plymouth	73	51	68·3	55·7	61·6	+ 0·2	137	0	5	1·23	+0·50	55·0	+12·2	51	+11
	Prawle Point	71	54	68·1	56·9	62·1	+ 2·7	141	0	3	0·95	+0·35	*	*	*	*
9. IRELAND, N.	Malin Head	65	51	60·6	54·3	57·2	− 0·1	106	0	7	2·73	?	*	*	*	*
	Londonderry	72	48	65·2	52·9	58·6	+ 0·4	116	0	7	2·02	+1·15	*	*	*	*
	Edenfel (Omagh)	69	47	61·7	52·4	56·7	0·0	103	0	6	1·53	+0·70	*	*	*	*
	Belmullet	64	51	60·4	55·1	57·6	− 0·2	109	0	6	1·83	+0·88	*	*	*	*
	Markree Castle	69	49	63·4	52·6	57·6	+ 0·5	109	0	6	1·15	+0·22	16·9	−10·1	15	− 9
	Armagh	69	50	63·8	52·5	57·8	+ 0·2	111	0	6	2·35	+1·62	19·2	− 9·8	17	− 9
	Donaghadee	72	48	65·1	53·3	58·8	+ 1·1	118	0	6	2·63	+1·92	*	*	*	*
	Edgeworthstown	71	42	64·6	50·2	56·9	− 1·0	104	0	4	2·34	+1·39	*	*	*	*
10. IRELAND, S.	Dublin	75	52	67·7	56·4	61·7	+ 1·8	138	0	5	2·95	+2·27	37·0	+ 2·0	33	+ 1
	Parsonstown	73	52	65·4	55·4	60·1	+ 1·9	127	0	5	2·57	+1·80	27·3	− 3·4	25	− 1
	Kilkenny	74	50	67·6	53·4	60·0	+ 1·4	126	0	3	1·63	+1·02	*	*	*	*
	Roche's Point	69	52	65·9	55·4	60·3	+ 0·6	128	0	3	1·57	+0·79	*	*	*	*
	Valencia	67	52	63·7	55·9	59·5	+ 0·8	123	0	6	1·31	+0·34	15·4	−17·9	14	−16
	Killarney												*	*	*	*
	Foynes	72	52	64·4	55·0	59·4	+ 1·5	122	0	5	1·19	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	72	57	68·7	58·3	63·1	+ 2·7	148	0	5	1·32	+0·72	57·5	?	53	?
	Jersey	82	53	75·3	58·9	66·5	+ 3·9	172	0	2	0·05	−0·55	71·9	+20·0	67	+18

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

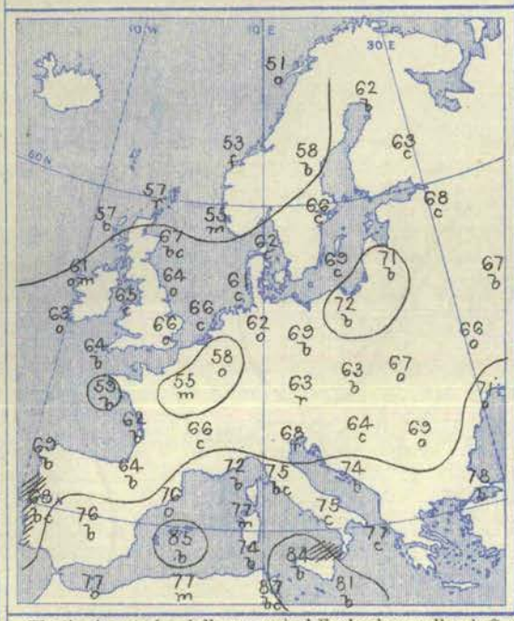
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 19th July.

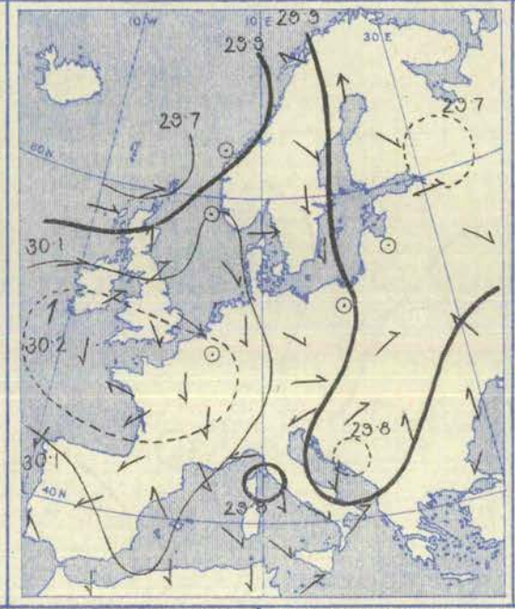
Temperature and Weather.

8 a.m.

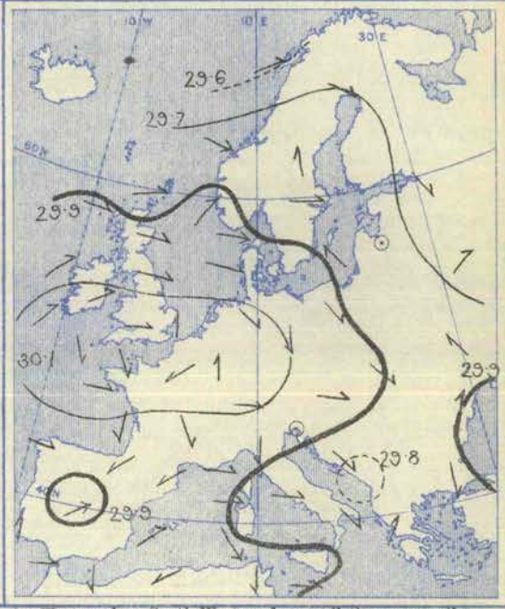


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over central England, as well as in Scotland and the north and west of Ireland, with rain in the Shetlands. Fine in other parts of the United Kingdom, and also in most of the Continental countries, but dull in Germany and Austria, with rain at Prague and Trieste; foggy or misty in the west of Norway. Rain falling later in the north of Ireland and the west and north of Scotland, as well as on the Norwegian coasts; considerable quantity falling also at Vienna.

Temperature risen in our Islands, but fallen at most of the Continental stations. Morning readings highest, 87° at Sfax, 86° at Tunis, 85° at Palma, and 84° at Palermo; above 70° over southern Europe generally, as well as in the Baltic provinces, and very little below it over Great Britain. Lowest, (1) 51° at Bodö, 53° at Christiansund, 55° at Skudesnaes, and 57° at Sumburgh Head and Stornoway; (2) 53° at Le Mans, and 55° at Paris. Rising during day to 75° and upwards in many parts of Great Britain, and to 80° in London and at Cambridge. Exceeding 85° over southern Europe as a whole; reaching 97° at Malta, and 99° at Cape Béarn.

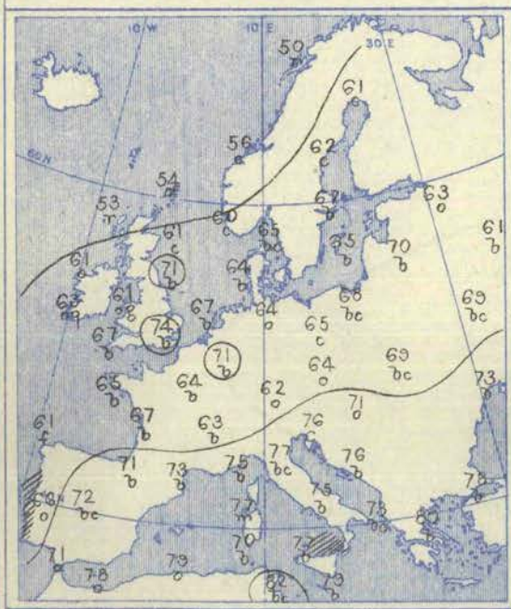
Wind light to moderate from the Westward or South-Westward over all the more northern parts of the United Kingdom, but variable in the south of England. Varying between East and North over France and the Spanish Peninsula. Calm in the west of Norway; Northerly or North-Westerly over Germany, Denmark, Sweden, and the northern and central parts of Russia; Westerly or South-Westerly in Austria. Variable, but chiefly North-Westerly in Italy. Subsequently backing to the Westward on the eastern shores of the North Sea, and shifting to South or South-East in Sweden; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over all the more central and southern parts of England and Ireland, and the northern and central parts of France. Lowest, 29·7 ins. and less in a shallow depression over the north of Russia; 29·8 ins. and less in a well-marked disturbance lying to the northward of the Shetlands, and also in a small shallow system over the Adriatic. Anticyclone giving way gradually during day; depression off our extreme northern coasts moving away to the north-eastward.

Monday, 20th July.

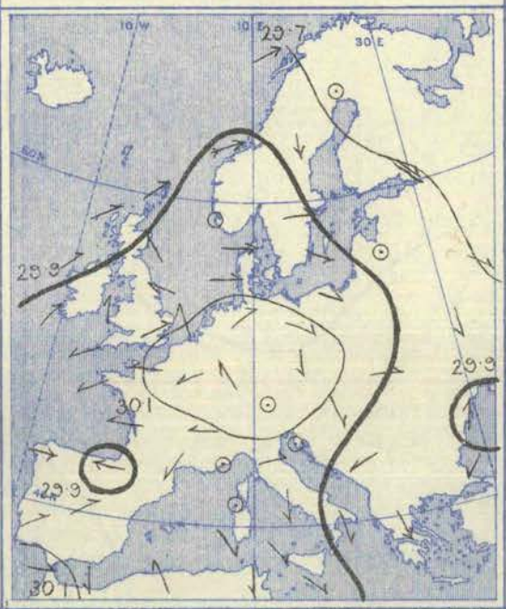
Temperature and Weather.

8 a.m.

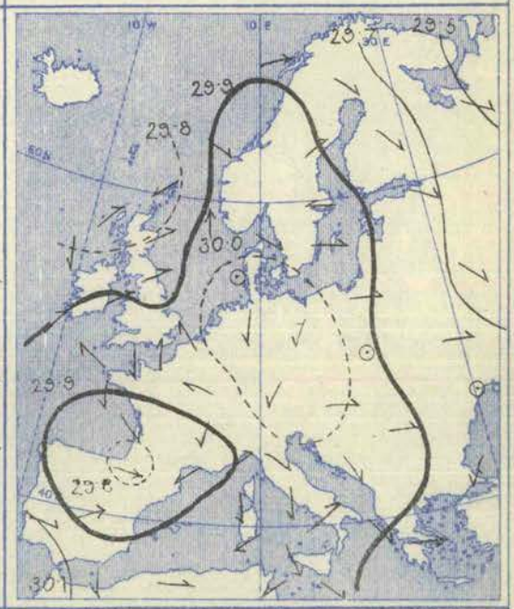


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England and the greater part of the Continent, but dull at most of the German and Austrian stations, and rainy at Bodö. Dull also in Ireland and the west and north of Scotland, with rain at Stornoway and Nairn. Rain falling later in Ireland and the west and north of Scotland generally—rather heavily on our extreme north-west coasts. Thunderstorms occurring in many parts of France, and rain falling at some of the Austrian stations.

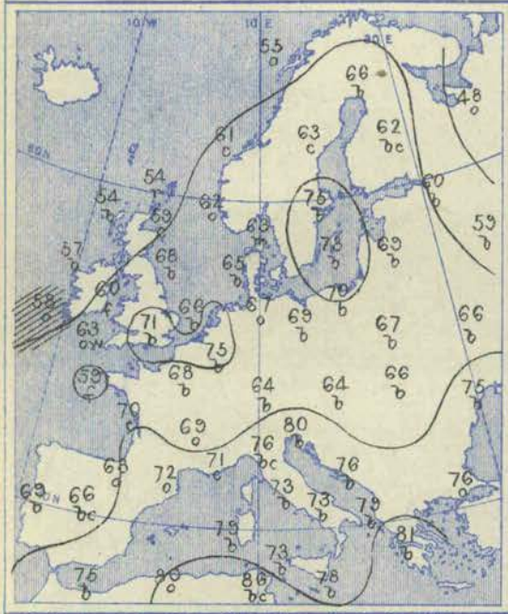
Temperature risen in most of the western countries, but changed irregularly elsewhere. Morning readings highest, 82° at Sfax, 81° at Palma, and 80° at Athens and Patras; above 75° at the Mediterranean and Adriatic stations generally, and above 70° at several stations in the east and south of England, as well as in the Baltic provinces. Lowest, 50° at Bodö, 53° at Stornoway, 54° at Sumburgh Head, and 50° at Christiansund. Rising during day to 80° and upwards over the greater part of England, and reaching 85° in London and at Cambridge; slightly exceeding 85° in many parts of France and southern Europe, and reaching 97° at Cape Béarn.

Wind light from the Southward or South-Westward in the west and extreme north of our Islands, and from the South-Eastward on our eastern coasts. Light to moderate from East or North-East over the Channel and the greater part of France, but Westerly or South-Westerly over the Spanish Peninsula. Strong from the Westward or North-Westward over Scandinavia, and light or moderate from the same quarters over Denmark, Germany, and the greater part of Russia; Northerly or North-Westerly over the greater part of Italy and Greece. Subsequently shifting to the North-Westward or Northward in the north of Ireland, and to the Westward or North-Westward in the south-west of France.

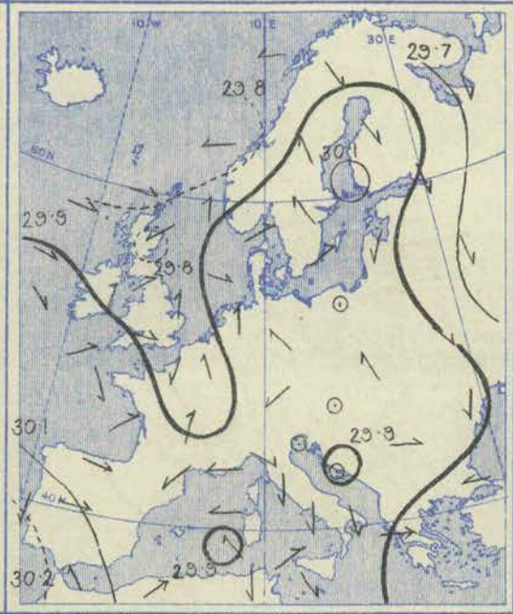
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Germany, the Netherlands, the north-east of France, and the south-east of England. Lowest, 29·7 ins. and less in a large area lying over the north of Scandinavia and the northern and central parts of Russia; 29·8 ins. and less in a depression off the north-west of Scotland; 29·9 ins. and less in a shallow disturbance over the north-east of Spain. Scotch depression subsequently spreading eastwards; Spanish disturbance becoming somewhat deeper.

Tuesday, 21st July.

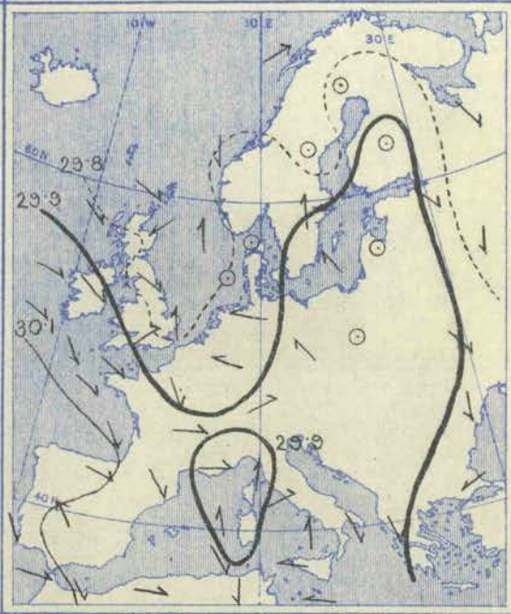
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over England and the greater part of the Continent, but dull over the southern parts of France; cloudy over the northern parts of our Islands, with slight rain in places. Showers falling later in several parts of the United Kingdom, and heavy rain in some parts of central France; thunder occurring at Belfort, and lightning at night in Paris. Solar halos seen at Oxford and Jersey.

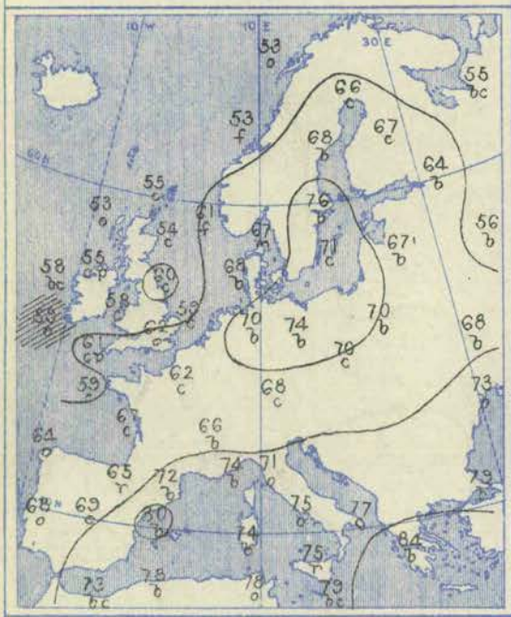
Temperature fallen a little in most parts of our Islands, and also over the southern parts of the Continent, risen or changed irregularly elsewhere. Morning readings highest, (1) 86° at Sfax, 85° at Tunis, and 82° at La Calle; (2) 75° at Brussels, and 74° at Jersey; (3) 75° at Stockholm, and 73° at Wisby. Lowest, (1) 48° at Archangel; (2) 54° at Sumburgh Head, Stornoway, and Nairn. Daily maxima below 60° in the north of Scotland, and below 65° on many parts of our western coasts. Thermometer exceeding 80° over the more central parts of England, and reaching 88° in London and at Cambridge. Exceeding 80° also in Sweden, and exceeding 85° in many parts of France and southern Europe, the highest reading of all being 91° at Charleville and Madrid.

Wind light to moderate from the Westward or North-Westward in the west and south of our Islands, and also over the Bay of Biscay and the Spanish Peninsula. Light from the South-Westward over the eastern and central parts of our Islands, but South-Easterly over the Netherlands and north Germany. Westerly in Denmark and also in the north of Scotland. Varying between South and East in Scandinavia. Light from the North-Westward or Northward in Russia, and also in Italy, but calm or variable in Austria. Subsequently veering to the North-Westward over the northern parts of Great Britain. No important change occurring elsewhere.

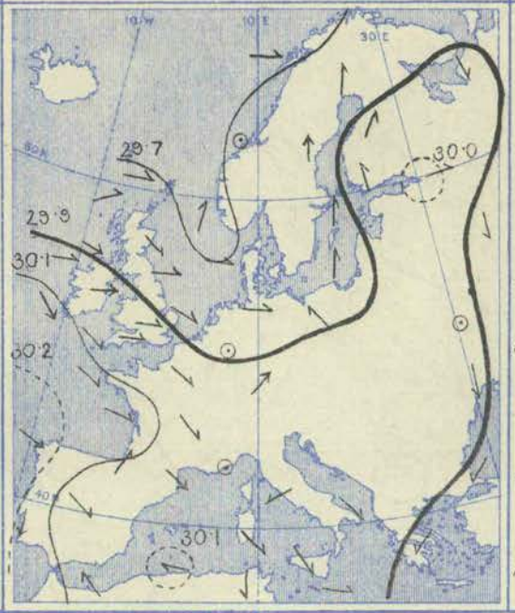
Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the Portuguese coasts; 30·0 ins. and upwards in another system over eastern Germany, the Baltic, and the neighbouring parts of Sweden and Russia. Lowest, 29·7 ins. and less in a large shallow area over northern and central Russia; 29·8 ins. and less in another large area lying to the northward of our Islands, and also in a small depression over the east of Scotland. Scotch depression subsequently moving south-eastwards, and barometer rising on all but our south-east coasts.

Wednesday, 22nd July.

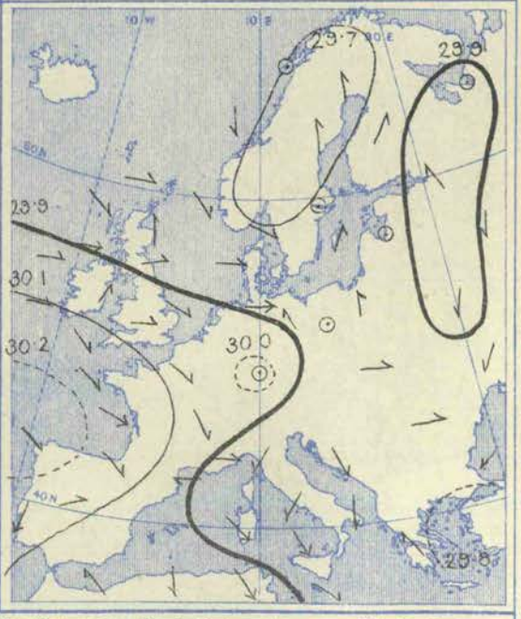
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but showery at one or two of our own western stations. Dull in the south-west of France, and also in Italy, with rain at Biarritz and Palermo. Rain falling later in the west and north of our Islands generally, and also at some of the German stations; thunder and lightning occurring at Karlstad, as well as in the south of France.

Temperature fallen over western Europe generally, and also over the central and southern parts of Russia, but risen elsewhere. Morning readings highest, 84° at Athens and Patras, 82° at Sfax, and 80° at Barcelona; above 70° over southern Europe generally, and also over north Germany and the south of Sweden. Lowest, (1) 53° at Bodö, Christiansund, and Stornoway, and 54° at Aberdeen; (2) 55° at Archangel, and 56° at Moscow. Daily maxima below 65° on many parts of our own western and northern coasts, but thermometer rising a little above 70° in the south of England. Exceeding 80° in Germany and the south of France, and exceeding 90° in many parts of Italy and central Spain, the highest reading of all being 99° at Naples.

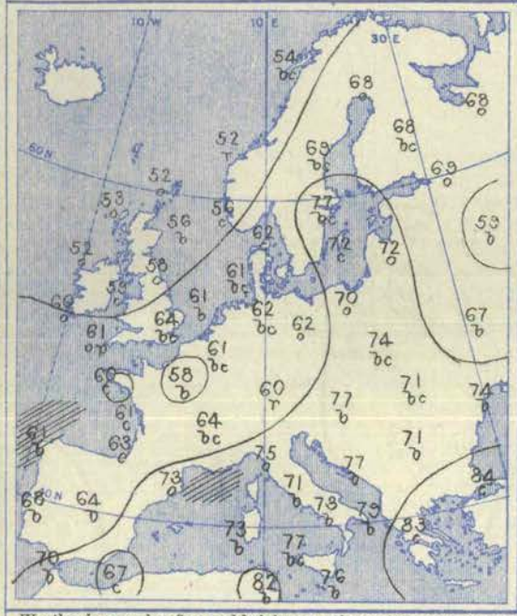
Wind light to moderate from the Westward or North-Westward over our Islands, France, Spain, and the Netherlands; South-Westerly over western Germany; South-Easterly over eastern Germany; Southerly over the Baltic, Scandinavia, and Finland. Light from the Northward over the greater part of Russia, and from the North-Westward in the south of Italy. Subsequently veering to the Northward in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over and to the westward of Portugal. Lowest, 29·7 ins. and less in a large shallow depression lying off the west of Norway, and extending southwards over the northern parts of the North Sea; 29·9 ins. and less in another system over Corsica, Sardinia, and the greater part of Italy. Norwegian depression subsequently moving north-eastwards; barometer rising over western Europe generally, but beginning to fall again in the west of Ireland.

Thursday, 23rd July.

Temperature and Weather.

8 a.m.

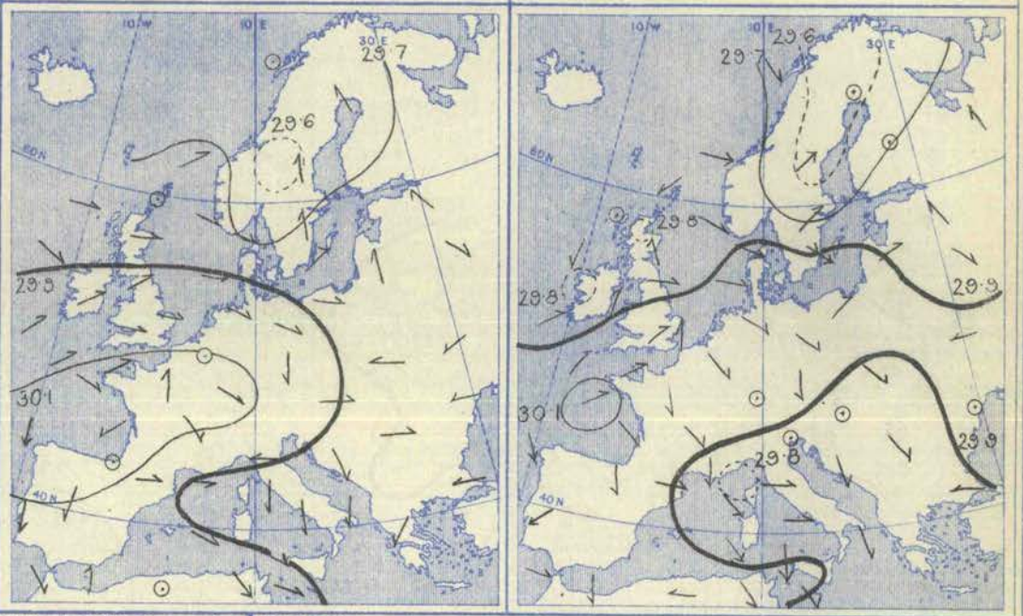


Weather in morning fine and bright over the eastern and central parts of our Islands, as well as at most of the Continental stations, but dull over a considerable portion of Germany and the Baltic, with rain at Munich. Rain falling also at Christiansund, and showers at several of our own western stations. Considerable quantities of rain falling later in the west and north of our Islands, as well as in Scandinavia and south Germany. Solar halo seen at Jersey during day.

Temperature risen a little over England, as well as in Sweden and northern Russia, fallen in most other countries. Morning readings highest, (1) 84° at Constantinople, 83° at Athens, 82° at Sfax; and 79° at Brindisi; (2) 77° at Stockholm, and 72° at Wisby. Lowest, (1) 52° at Christiansund and Sumburgh Head, and 53° at Stornoway and Malin Head; (2) 53° at Le Mans and Limoges. Daily maxima below 65° at most of our own western and northern stations, but thermometer exceeding 70° over the inland parts of England, and reaching 75° in London. Exceeding 80° over central Sweden, and exceeding 85° in many parts of southern Europe, the highest reading of all being 91° at Gap.

Barometer and Wind.

8 a.m. 6 p.m.



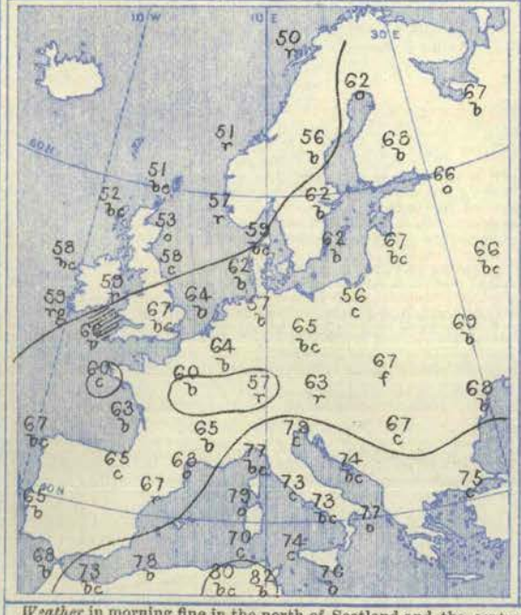
Wind light to moderate from the South-Westward over the greater part of Ireland and England; Westerly in Scotland, and also in Norway, Denmark, and north Germany; Southerly over the Baltic, Finland, and Sweden. Light from the Northward or North-Westward over eastern Germany, and also over Italy and central Russia, but Westerly in Austria. Variable over France; Northerly over the Spanish Peninsula. Subsequently becoming variable in Scotland; shifting to the Northward or North-Eastward in the north of Ireland.

Barometer highest in an anticyclone extending from the Bay of Biscay and the north of Spain across all but the southern parts of France to south Germany. Lowest, 29·6 ins. and less in a well-marked depression over the central parts of Scandinavia. Depression subsequently moving north-eastwards, but new disturbance appearing over the west of Ireland, and barometer falling over the United Kingdom generally.

Friday, 24th July.

Temperature and Weather.

8 a.m.

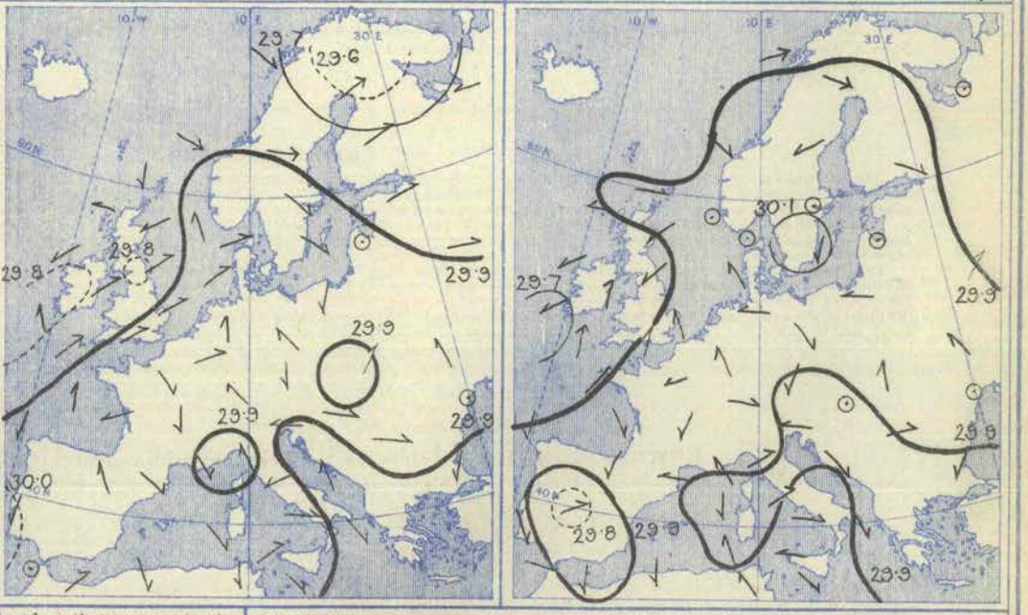


Weather in morning fine in the north of Scotland and the central and south-eastern parts of England, as well as in most of the Continental countries, but rainy in the west of Norway, and also in some parts of Poland, Austria, south Germany, and the north of Spain. Dull in the west and north of our Islands, with rain in Wales and the south of Ireland. Heavy rain falling later at many of our western stations, and also in the extreme north of England, with a thunderstorm at Shields. Considerable quantities falling in some parts of Denmark and north Germany; thunderstorm occurring at Moscow.

Temperature changed very irregularly in most countries, but fallen several degrees in Sweden. Morning readings highest, 82° at Sfax, 80° at La Calle, and 79° at Trieste and Sanguinaire; above 70° at the Mediterranean and Adriatic stations generally, and very little below it at some of the southern stations in England. Lowest, 50° at Bodö, 51° at Christiansund and Sumburgh Head, and 52° at Stornoway. Daily maxima below 60° at most of the Scotch stations, but thermometer reaching 75° or more in several parts of England. Exceeding 85° over central Spain and the southern parts of France and Italy.

Barometer and Wind.

8 a.m. 6 p.m.

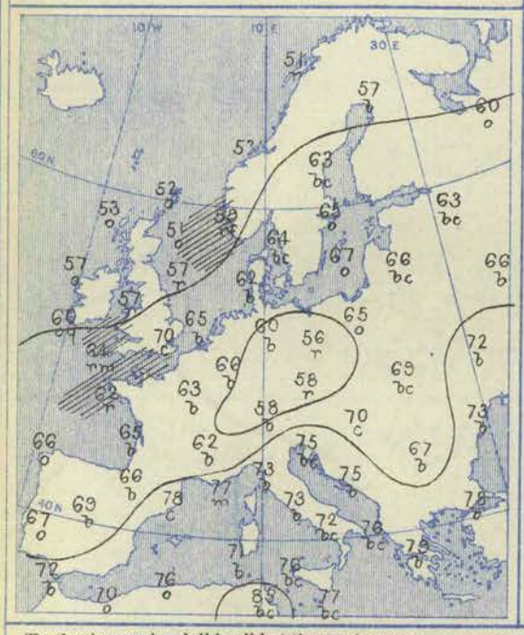


Wind light to fresh from the Southward or South-Westward over England, the Netherlands, and Denmark; light from the North-Eastward over Scotland and the north of Ireland. Moderate to strong from the Westward (South-West to North-West) over Scandinavia and Finland; North-Westerly or Northerly over the Baltic and eastern Germany; calm or variable over Austria and the south of Russia. Variable over Italy and the Spanish Peninsula; Easterly or South-Easterly in the west of France. No important change occurring during day.

Barometer highest, 30·0 ins. and upwards in an irregularly formed area extending from the Baltic and the south of Sweden across Denmark, Germany, the Netherlands, and the greater part of France. Lowest, 29·6 ins. and less in a well-marked depression over Lapland; 29·8 ins. and less in another system stretching from the south-westward over Ireland, and also in a small disturbance over the north-east of Great Britain. New depression approaching our south-west coasts towards night.

Saturday, 25th July.

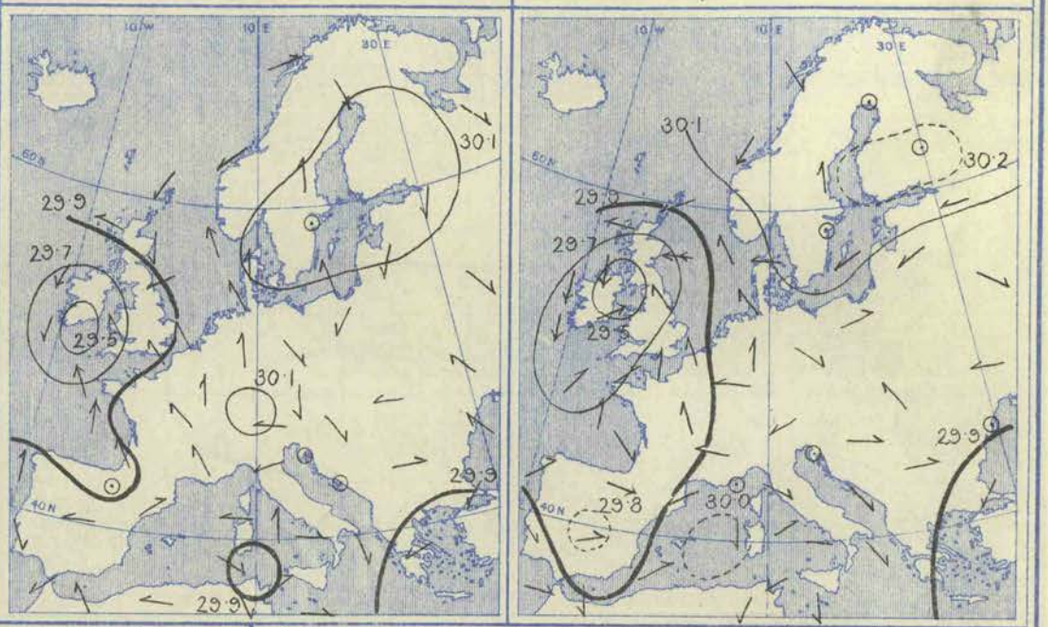
Temperature and Weather. 8 a.m.



Weather in morning dull in all but the south-eastern parts of our Islands, with rain at many of our western and northern stations, and also in the west of Norway. Fine in most of the Continental countries, but dull and rainy over the eastern parts of Germany. Heavy rain falling later over the northern half of the United Kingdom (1·1 ins. at Wick, and 1·5 ins. at Malin Head), and also at some stations in the northern parts of France and Germany. Lightning seen at the North Foreland at night; thunderstorm occurring at Limoges, and thunder heard in Paris.

Temperature fallen a little in our Islands, risen in Scandinavia, changed irregularly elsewhere. Morning readings highest, 85° at Sfax, 83° at Tunis, 80° at Sanguinaire, and 79° at Athens; above 70° in many parts of southern and eastern Europe. Lowest, 51° at Bodö, Aberdeen, and Ardrossan, and 52° at Sumburgh Head, Nairn, and Leith. Daily maxima below 60° on our extreme north and north-west coasts, but thermometer exceeding 75° at several of our eastern and south-eastern stations, and reaching 80° in London. Exceeding 85° in many parts of southern Europe; reaching 95° at Bordeaux and Cape Béarn, and 96° at Madrid.

Barometer and Wind. 8 a.m. 6 p.m.



Wind Southerly or South-Easterly over England and the neighbouring parts of the Continent, and strong in force on our south-west coasts; light from the North-Eastward in Scotland, and strong from the same quarter in the north of Ireland; moderate from the Northward in the south of Ireland. Westerly in the north of Scandinavia; North-Westerly or Northerly over the greater part of Russia and Austria; light and variable over southern Europe generally. Subsequently increasing to a gale from the Eastward in the north of Scotland; shifting to the Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Finland, the Baltic provinces, and the south of Sweden. Lowest, 29·5 ins. and less in a well-marked depression over the southern parts of Ireland and the St. George's Channel. Depression subsequently moving steadily in a north-north-easterly direction, and barometer rising again on our south-west coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The anticyclone which spread over western Europe at the close of last week remained fairly stationary until the 20th, when it moved away to the eastward and dispersed. During its prevalence the winds over north-western Europe were mostly from the Westward, while those in the south were either variable or Easterly, the weather being fair and warm in all but the extreme northern and north-western parts of our Islands, where rain was somewhat frequent.

On the 20th and 21st a shallow depression passed eastwards across our northern coasts, while a large "V" shaped secondary system moved in a similar direction over England and the neighbouring parts of the Continent. The weather over our Islands now became cooler and less settled, but in the southern and south-eastern districts there was little or no rain.

In the rear of the disturbance an anticyclone again spread in from the Atlantic, but this soon dispersed, the weather during the closing part of the week being affected by two depressions which advanced from the south-westward. The first of these (a rather complex system) extended over our western and northern districts on the night of the 23rd, and occasioned heavy rain at many of our western and northern stations. The second, a deeper disturbance, appeared off our south-west coasts on the night of the 24th, and afterwards moved steadily northwards, its progress being marked by general and heavy falls of rain, firstly in the west, and afterwards in the north, and by gales from the Eastward or North-Eastward on our north and north-west coasts. At the close of the week the depression was passing along the west of Scotland, while small secondary systems were beginning to appear over our south-west coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	22·9	− 8·4	20	− 8	SOUTHPORT	41·7	?	37	?
OSWALDKIRK (Yorkshire)	43·7	+ 9·6	39	+ 9	MANCHESTER (Oldham Road)	32·7*	?	29*	?
WORKSOP	36·5	+ 1·0	33	+ 1	COLWYN BAY	45·5	?	41	?
THURCASTON (Leicestershire)	40·7	+ 3·9	37	+ 4	TENBY	*		*	
MARGATE	52·8	+ 9·6	48	+ 8	NEWQUAY	46·8	+ 1·0	43	0
WESTBOURNE (Sussex)	63·4*	+16·2	58*	+ 14	TORQUAY	50·0*	+ 4·2	46*	+ 4
BRIGHTON	66·9	+18·4	61	+ 16	ARLEY COTTAGE (County Cavan)	17·0	−14·8	15	− 15
EASTBOURNE	64·6	+15·6	59	+ 14	GUERNSEY	73·1*	+19·9	68*	+ 18

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 31.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 1ST, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95 RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 182.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	39	60·8	48·7	54·3	1 below	86	0	0	0	1331	+257	305	−318
	1. SCOTLAND, EAST	72	38	62·9	48·2	55·1	2 below	92	−11	0	0	1594	+262	408	−241
	2. ENGLAND, N.E.	72	41	63·9	51·9	57·5	1 below	109	− 6	0	0	1695	+305	327	−222
	3. ENGLAND, EAST	77	40	69·5	51·6	60·0	1 below	126	− 1	0	0	1912	+263	388	−229
	4. MIDLAND COUNTIES	75	39	68·5	50·3	58·8	1 below	118	− 3	0	0	1972	+303	372	−247
	5. ENGLAND, SOUTH	74	44	69·2	54·1	61·2	0 (average)	134	+ 1	0	0	2106	+321	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	37	63·1	50·2	56·2	1 below	99	− 7	0	0	1602	+286	234	−228
	7. ENGLAND, N.W.	72	40	65·3	52·7	58·6	1 below	116	0	0	0	1884	+378	201	−258
	8. ENGLAND, S.W.	77	40	66·5	52·6	59·0	1 below	119	− 2	0	0	2096	+401	155	−206
	9. IRELAND, NORTH	76	37	63·3	50·6	56·5	1 below	102	− 4	0	0	1821	+317	162	−233
	10. IRELAND, SOUTH	72	40	65·8	51·3	58·1	1 below	113	− 2	0	0	2106†	+390	89	−210
	—CHANNEL ISLANDS	73	47	68·4	56·9	62·2	1 above	141	+ 8	0	0	2393	+498	39	−109

Rainfall.

	DISTRICTS. (See p. 182.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	3	6 less	143	+ 4	30·9	+ 3·5
	1. SCOTLAND, EAST	2	2	6 less	111	− 2	13·7	− 4·2
	2. ENGLAND, N.E.	3	7	0 (average)	90	−16	9·6	− 4·3
	3 ENGLAND, EAST	3	4	3 less	91	−12	10·2	− 3·8
	4. MIDLAND COUNTIES	3	4	2 less	89	−12	10·2	− 5·0
	5. ENGLAND, SOUTH	3	5	2 less	81	−16	8·7	− 6·3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	10	0 (average)	119	0	24·2	− 1·7
	7. ENGLAND, N.W.	3	3	6 less	104	− 5	16·6	− 1·1
	8. ENGLAND, S.W.	3	5	4 less	87	−23	12·2	− 8·2
	9. IRELAND, NORTH	3	6	3 less	123	− 5	21·2	+ 1·3
	10. IRELAND, SOUTH	3	5	3 less	103	−14	17·5†	− 3·6
	—CHANNEL ISLANDS	4	5	2 less	96	−20	9·0	− 7·9

Bright Sunshine.

	DISTRICTS. (See p. 182.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	30	+ 7	26	+ 5	691	− 56	24	− 2
	1. SCOTLAND, EAST	36	+ 4	32	+ 3	906	+ 35	32	+ 2
	2. ENGLAND, N.E.	30	− 5	27	− 4	903	+ 41	32	+ 2
	3 ENGLAND, EAST	50	+ 7	47	+ 7	1070	+ 59	38	+ 2
	4. MIDLAND COUNTIES	35	0	33	0	962	+ 55	34	+ 2
	5. ENGLAND, SOUTH	54	+ 8	50	+ 7	1107	+ 54	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	44	+ 9	40	+ 8	928	+ 5	33	+ 1
	7. ENGLAND, N.W.	36	+ 4	33	+ 3	934	+ 85	35	+ 2
	8. ENGLAND, S.W.	47	+ 4	44	+ 3	1197	+ 93	43	+ 4
	9. IRELAND, NORTH	36	+ 8	32	+ 6	828	− 32	29	− 1
	10. IRELAND, SOUTH	44	+12	40	+10	967	0	34	0
	—CHANNEL ISLANDS	59	+ 6	56	+ 4	1337	+ 81	48	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather. At the commencement of the week changeable weather prevailed over the whole Kingdom, with thunderstorms and heavy rain in many parts of England. Later on a decided improvement took place, but on the night of the 28th July rain set in over our western districts, the unsettled weather subsequently spreading to most other parts of the country. Towards the close of the period, however, the conditions again improved, and became fair and dry generally.

Temperature was a little below the mean in all districts, excepting England S. and the Channel Islands, where the normal was equalled or slightly exceeded. Highest readings occurred in the northern and eastern parts of the United Kingdom on July 26th, and in the south between July 28th and 30th, but in the west they were observed mainly towards the end of the week. As a rule the thermometer did not rise much above 70°, but in Ireland N. it reached 76°, while in England E. and England S.W. it touched 77°. Lowest readings occurred on July 28th or 29th, when the sheltered thermometer fell to 40° or less in many parts of the United Kingdom, and to 37° in Scotland W. and Ireland N. At Oxford the thermometer on the grass fell on the night of the 28th to a minimum of 36°.

Rainfall was less than the mean in all districts excepting Scotland W., the deficit being large in the north and east of Scotland, and also in the western parts of England.

Bright Sunshine exceeded the mean in all districts excepting Midland counties, where it equalled it, and in England N.E. where it was less than the normal. The percentage of the possible duration ranged from 56 in the Channel Islands, and 50 in England S., to 27 in England N.E., and 26 in Scotland N.

Barometer and Wind.—The depression which moved along our western coasts at the close of last week subsequently travelled eastwards across Scotland and the North Sea, but on the 26th July shallow secondary systems passed across England and occasioned the thunderstorms noticed above. In the rear of these disturbances the barometer rose generally, and a small anticyclone appeared over the more southern parts of the Kingdom, the wind which was previously Westerly to North-Westerly becoming light and variable. On the night of July 28th a new depression appeared off our extreme north-western coasts, the disturbance ultimately moving south-eastwards to France where it gradually dispersed. In its rear the wind shifted to the North-East very generally.

† This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 181 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	46	57·9	49·7	53·5	+ 0·2	81	0	2	0·58	−0·07	*	*	*	*
	Stornoway	66	42	59·7	48·4	53·7	− 1·0	82	0	2	0·39	−0·36	21·8	− 6·2	19	− 6
	Wick	68	42	60·4	49·4	54·5	− 0·6	88	0	3	0·09	−0·51	*	*	*	*
	Glencarron Ꞩ	65	40	61·4	46·9	53·7	− 0·8	82	0	1	0·22	−1·27	*	*	*	*
	Fort Augustus Ꞩ	69	39	62·5	47·9	54·7	− 1·6	89	0	2	0·23	−0·55	16·2	− 0·5	14	− 1
	Fort William Ꞩ	66	42	62·8	43·8	55·9	− 0·9	97	0	2	0·22	−1·07	50·5	+27·8	45	+24
1. SCOTLAND, E.	Nairn	69	41	62·4	47·3	54·3	− 2·1	86	0	2	0·10	−0·60	*	*	*	*
	Aberdeen	64	45	60·0	50·0	54·7	− 2·3	89	0	1	0·01	−0·73	35·9	+ 1·8	32	+ 2
	Braemar Ꞩ	66	40	60·0	45·7	52·4	− 2·1	73	0	1	0·12	−0·58	31·3†	+ 3·6†	28†	+ 3†
	Ochtertyre Ꞩ	72	38	67·3	49·1	57·6	− 0·4	109	0	2	0·29	−0·59	*	*	*	*
	Leith	67	44	64·7	50·0	56·8	− 2·0	104	0	3	0·41	−0·29	*	*	*	*
	Marchmont Ꞩ	68	40	62·7	47·3	54·5	− 2·0	88	0	3	0·38	−0·49	37·8	+ 3·5	34	+ 2
2. ENGLAND, N.E.	Alnwick Castle	67	41	62·0	50·1	55·6	− 1·6	95	0	3	0·85	+0·11	*	*	*	*
	Durham	70	42	65·7	50·5	57·6	− 1·1	109	0	2	0·32	−0·45	34·6	+ 0·4	31	0
	Shields	69	45	61·9	51·4	56·3	− 1·8	100	0	4	0·07	−0·61	*	*	*	*
	Scarborough Ꞩ	72	49	62·1	53·1	57·3	− 1·8	107	0	2	1·05	+0·33	*	*	*	*
	York	72	48	68·0	50·9	58·9	− 0·5	118	0	3	0·32	−0·36				
	Spurn Head	70	52	63·7	55·4	59·3	− 0·4	121	0	1	1·28	+0·83	*	*	*	*
3. ENGLAND, E.	Hillington Ꞩ	76	45	69·2	50·1	59·1	− 1·5	120	0	2	0·24	−0·51	43·4	+ 1·9	40	+ 2
	Yarmouth	72	49	66·1	55·1	60·2	− 0·5	127	0	2	0·13	−0·54	*	*	*	*
	Geldeston	75	40	69·3	51·0	59·5	− 1·1	123	0	2	0·25	−0·42	54·8	+10·1	51	+ 9
	Cambridge	77	45	72·9	51·3	61·4	− 0·2	136	0	4	0·31	−0·31	55·5	+13·4	51	+13
	Rothamsted	72	42	70·1	50·7	59·7	− 0·9	124	0	4	0·83	+0·16	48·0	+ 3·3	44	+ 2
4. MIDLAND COUNTIES	Harrogate Ꞩ	66	44	64·2	50·3	56·8	− 2·1	104	0	3	0·28	?	21·0	?	19	?
	Bawtry (Hesley Hall)	75	42	70·0	48·1	58·3	− 1·9	114	0	2	1·04	+0·39	*	*	*	*
	Loughborough	72	44	69·4	51·7	59·9	− 1·7	125	0	2	0·74	+0·17	*	*	*	*
	Stamford (Ketton Hall)	74	40	70·9	49·4	59·4	− 2·0	122	0	3	0·60	−0·04	*	*	*	*
	Cheadle Ꞩ	69	43	65·5	50·0	57·3	− 0·8	107	0	3	0·21	−0·56	*	*	*	*
	Shirley (near Solihull)	72	42	67·5	49·9	58·1	− 2·3	113	0	4	0·43	?	*	*	*	*
	Churchstoke Ꞩ															
	Hereford Ꞩ	?	40	?	49·9	?	?	?	?	4	0·18	−0·40	*	*	*	*
	Cirencester	72	39	69·7	49·0	58·6	− 0·5	116	0	3	0·25	−0·52	36·5	− 4.4	34	− 4
	Oxford	74	44	70·9	54·0	61·9	+ 1·0	139	0	2	0·18	−0·44	47·5	+ 5·5	44	+ 4
5. ENGLAND, S.	London	74	46	72·6	53·3	62·3	0·0	142	0	3	0·90	+0·30	45·0†	+ 6·2†	42†	+ 6†
	North Foreland	70	53	67·0	57·3	61·8	+ 0·9	139	0	3	0·33	?	*	*	*	*
	Dungeness	69	48	67·7	55·1	61·0	− 0·9	133	0	3	0·22	−0·28	*	*	*	*
	Hastings (St. Leonards)	69	50	68·6	54·2	60·9	− 0·5	132	0	3	0·60	−0·03	58·3	+ 9·5	54	+ 8
	Southampton	74	46	71·5	52·9	61·6	− 0·9	137	0	3	0·39	−0·31	46·1	+ 0·1	43	0
	Hurst Castle	71	52	69·7	56·0	62·4	+ 0·3	143	0	2	0·58	−0·01	*	*	*	*
	Stowell Ꞩ	71	44	67·5	49·7	58·1	− 1·3	113	0	4	0·12	−0·58	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	49	62·8	51·7	56·9	− 0·2	104	0	3	0·85	−0·40	*	*	*	*
	Glasgow	67	43	62·9	50·3	56·2	− 1·0	99	0	1	0·77	−0·19	34·4	+ 4·6	31	+ 4
	Ardrossan	70	47	62·3	51·0	56·3	− 1·7	100	0	3	0·86	+0·07	*	*	*	*
	Glenlee Ꞩ	70	37	64·1	45·9	54·4	− 3·1	87	0	3	1·75	+0·65	*	*	*	*
	Douglas (Isle of Man)	67	46	63·3	52·1	57·4	+ 0·1	108	0	3	0·75	−0·05	53·1	+12·4	48	+11
7. ENGLAND, N.W.	Stonyhurst	69	43	65·1	51·7	57·9	− 0·7	111	0	4	0·10	−1·06	36·4	+ 2·2	33	+ 2
	Blackpool Ꞩ	70	44	66·3	51·3	58·3	− 1·4	114	0	0	—	−0·82	42·6	+ 5·8	39	+ 5
	Manchester (Prestwich)	68	40	65·3	50·8	57·6	− 1·3	109	0	3	0·46	−0·48	23·7	?	21	?
	Liverpool Obsy. (Bidston)	72	50	66·0	54·0	59·6	− 0·3	123	0	2	0·28	−0·48	*	*	*	*
	Llandudno Ꞩ	70	51	65·5	54·5	59·7	− 0·8	124	0	3	0·30	−0·36	*	*	*	*
	Holyhead	67	51	63·3	54·1	58·4	+ 0·1	115	0	4	0·39	−0·22	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	40	70·9	49·4	59·4	+ 0·6	122	0	5	1·62	+0·58	*	*	*	*
	Pembroke	68	53	63·9	56·0	59·7	+ 0·8	124	0	2	0·27	−0·41	60·6	+18·7	56	+16
	Clifton	72	50	68·2	53·7	60·5	− 0·1	130	0	2	0·03	−0·84	*	*	*	*
	Arlington (N. Devon)	67	44	64·1	51·6	57·4	− 1·0	108	0	4	0·46	−0·81	*	*	*	*
	Cullompton Ꞩ	73	42	68·7	48·6	58·1	− 2·5	113	0	3	0·14	−0·58	26·2	−12·2	24	−12
	Falmouth	71	52	66·3	55·7	60·6	+ 0·3	130	0	4	0·82	+0·02	46·1	+ 0·5	43	0
	Plymouth	67	48	64·1	51·8	57·5	− 4·0	109	0	4	0·23	−0·55	41·4	− 0·8	39	− 1
	Prawle Point	69	50	65·4	53·7	59·1	− 0·6	120	0	2	0·08	−0·57	*	*	*	*
9. IRELAND N.	Malin Head	62	49	59·9	52·9	56·2	− 1·3	99	0	3	0·44	?	*	*	*	*
	Londonderry	76	44	66·9	50·5	58·1	0·0	113	0	4	0·96	+0·04	*	*	*	*
	Edenfel (Omagh)	66	37	61·6	47·1	53·9	− 2·8	83	0	3	0·50	−0·38	*	*	*	*
	Belmullet	64	51	61·7	55·0	58·1	+ 0·1	113	0	2	0·31	−0·74	*	*	*	*
	Markree Castle	71	37	65·0	48·7	56·3	− 0·9	100	0	4	0·83	−0·16	41·1	+15·1	37	+12
	Armagh	69	40	65·7	48·2	56·3	− 1·3	100	0	4	0·39	−0·35	29·6	+ 2·4	27	+ 2
	Donaghadee	64	44	62·0	51·9	56·6	− 1·1	102	0	3	0·76	+0·01	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	70	45	65·2	52·8	58·6	− 1·1	116	0	3	0·13	−0·59	49·0	+14·2	45	+13
	Parsonstown	72	43	66·4	50·3	57·8	− 0·8	111	0	3	0·43	−0·44	35·4	+ 7·1	32	+ 6
	Kilkenny	72	40	66·9	48·0	56·8	− 1·9	104	0	3	0·29	−0·37	*	*	*	*
	Roche's Point	71	49	67·4	53·9	60·2	+ 0·4	127	0	2	0·35	−0·50	*	*	*	*
	Valencia	67	43	63·3	52·1	57·3	− 1·6	107	0	4	0·75	−0·24	46·5	+13·8	43	+12
	Killarney	72	40	66·0	49·7	57·3	− 1·3	107	0	5	1·13	?	*	*	*	*
	Foynes	72	43	65·7	52·3	58·5	+ 0·3	116	0	3	0·52	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	55	66·3	57·0	61·3	+ 0·7	135	0	4	0·51	−0·13	60·0	?	57	?
	Jersey	73	47	70·4	56·7	63·1	+ 0·2	148	0	3	0·42	−0·23	53·2	− 0·6	51	0

Stations marked Ꞩ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

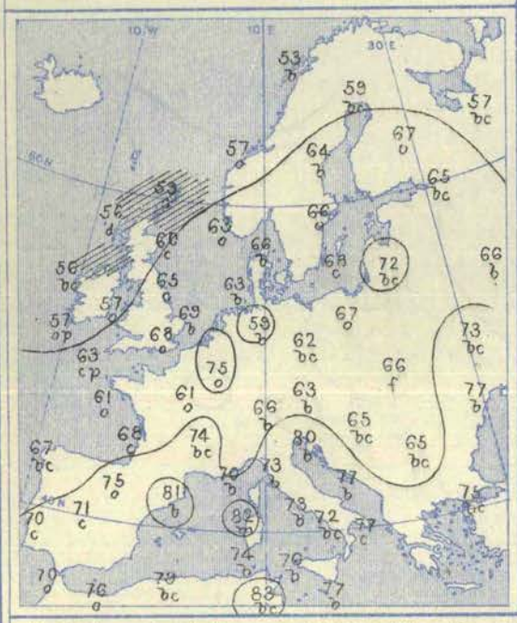
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 26th July.

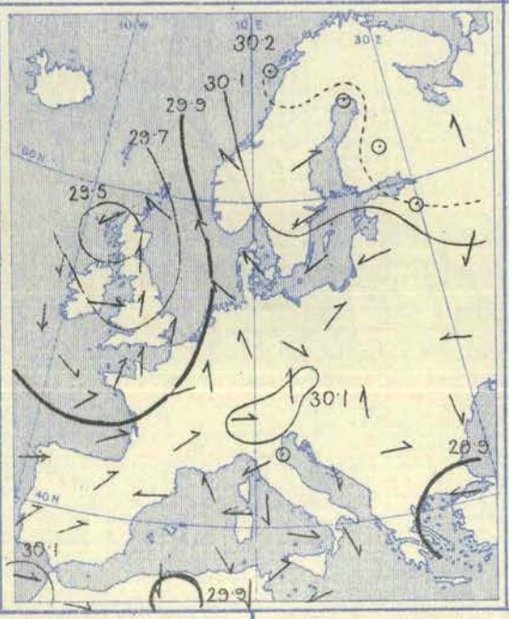
Temperature and Weather.

8 a.m.

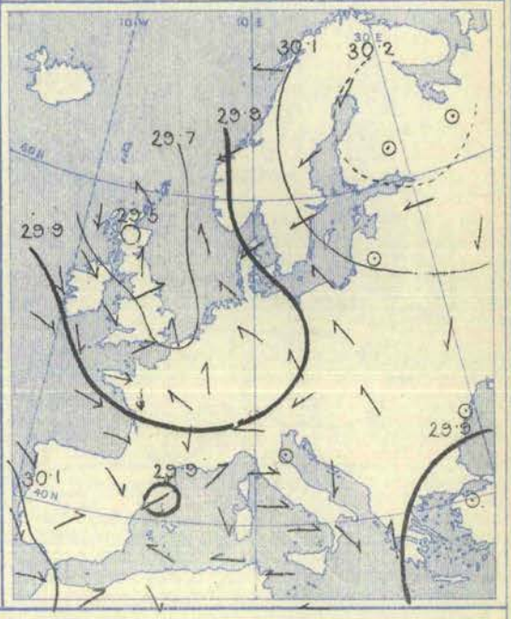


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over our Islands and the neighbouring parts of the Continent, with steady rain on our extreme north-west coasts, and with passing showers at some of the English stations. Fair or fine in most other parts of the Continent, but dull over Finland, the Baltic, and eastern Germany, with rain at Helsingfors and Swinemunde. Thunderstorms and heavy rain occurring later in many parts of England, France, and the Netherlands; smaller amounts reported in Ireland and Scotland, and also in Germany.

Temperature risen in most of the western countries, changed irregularly elsewhere. Morning readings highest, 87° at Palma, 83° at Sfax, 82° at Sanguinaire, and 81° at Barcelona; above 70° in most parts of southern and eastern Europe, and also over the Netherlands and the Baltic provinces. Lowest, 53° at Bodö, 54° at Malin Head, 55° at Parsonstown, and 56° at Stornoway, Ardrossan, Belmullet, and Pembroke. Rising during day to 70° and upwards over the eastern and central parts of England, and reaching 77° at Cambridge. Exceeding 80° over the southern and eastern countries generally, the highest readings of all being 96° at Gap, and 91° at Cape Béarn, Palma, and Florence.

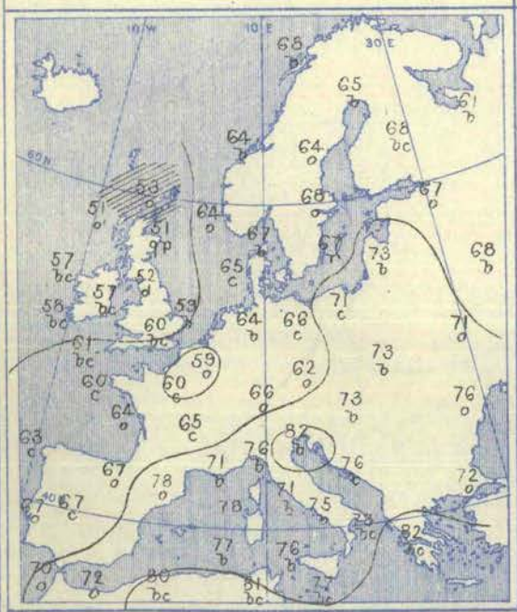
Wind moderate to fresh from the North-Westward on our extreme south-west coasts, and from the Westward in the north-west. Light to moderate from the South-Westward over the Channel, the Bay of Biscay, and the Spanish Peninsula; Southerly on the east coasts of Great Britain; South-Easterly on the eastern shores of the North Sea, and also in the north of Scotland. Light and variable over the northern, central, and southern parts of the Continent generally, but Easterly in the south of France. Subsequently veering to the North-Westward on our north-west coasts, and to the South-Westward in the east; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone over northern Russia; 30·1 ins. and upwards in another system off the south-west of Spain. Lowest, 29·4 ins. and less in a depression over the west of Scotland; gradients rather steep over the northern parts of our Islands and the North Sea. Depression subsequently moving slowly eastwards; barometer rising in all the more western and northern parts of our Islands.

Monday, 27th July.

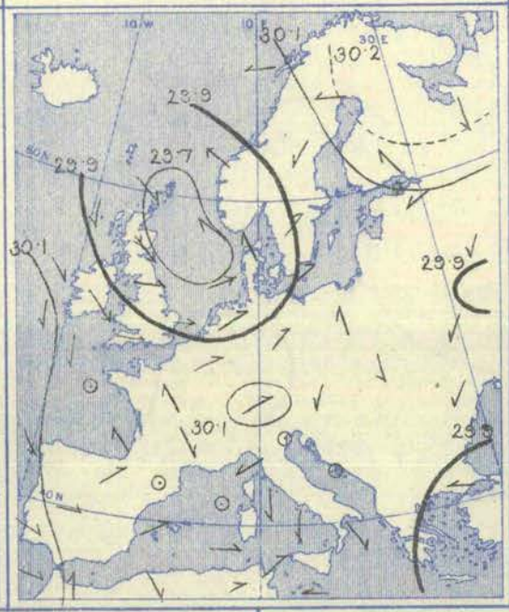
Temperature and Weather.

8 a.m.

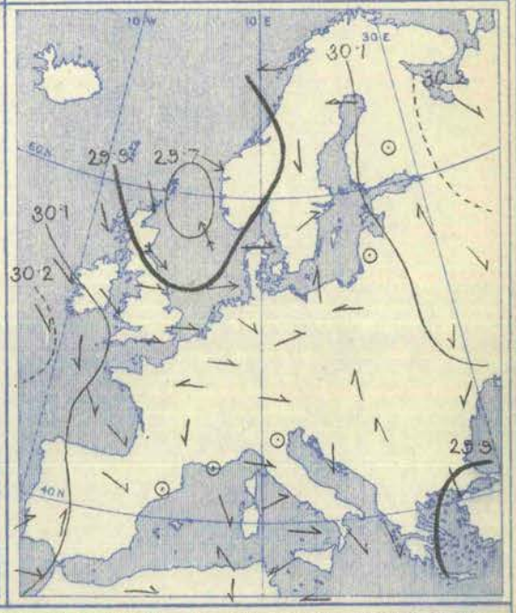


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of Ireland and England, as well as in Scandinavia, Russia, Austria, Italy, and the south of France. Cloudy or dull elsewhere, with passing showers at Aberdeen and Holyhead, and with rain at Wisby. Rain falling during day in many parts of Scandinavia, and also at some of our own northern stations; thunderstorms and heavy rain occurring over the central and southern parts of France—amount as large as 3·2 ins. at Marseilles.

Temperature fallen in most of the western countries, but risen elsewhere. Morning readings highest, 86° at Palma, 82° at Trieste and Athens, and 81° at Patras and Sfax; above 70° over southern and eastern Europe generally, and also at some of the Baltic stations. Lowest, 51° at Stornoway, Wick, and Aberdeen, and 52° at Nairn and Shields; below 55° at many of our northern stations. Daily maxima below 60° in several parts of Scotland and the north of Ireland, and below 70° at all our own stations excepting Hurst Castle. Thermometer reaching 75° or more over the north of Scandinavia; exceeding 90° in many parts of Italy, Austria, and the south of France, and reaching 95° at Gap.

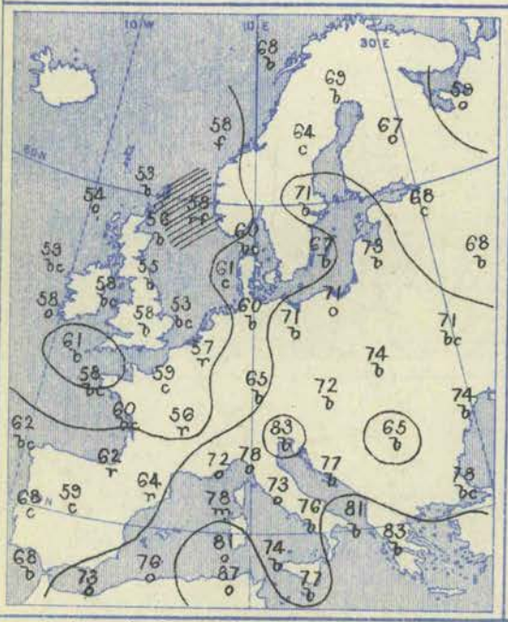
Wind strong from the North-Westward on our north and north-west coasts; moderate from the same quarter in the south-west of our Islands. Light to moderate from the Westward over England, and from the South-Westward over the Netherlands and Germany; Southerly over the Baltic; South-Easterly or Easterly over Finland and Scandinavia. Light from the North-Eastward over the central and southern parts of Russia; calm or variable over Austria, Italy, and the south of France; Southerly or South-Easterly in the west of France, but North-Westerly on the Portuguese coasts. Subsequently shifting to the North-Westward in most parts of England, and also in the west of France.

Barometer highest, 30·2 ins. and upwards in an anticyclone over Lapland and northern Russia; 30·1 ins. and upwards in another system lying over the western parts of the Spanish Peninsula. Lowest, 29·7 ins. and less in a depression over the northern parts of the North Sea; 29·9 ins. and less in a shallow area over the Black Sea and Asia Minor. Depression over North Sea subsequently moving slowly northwards; barometer rising over western Europe generally.

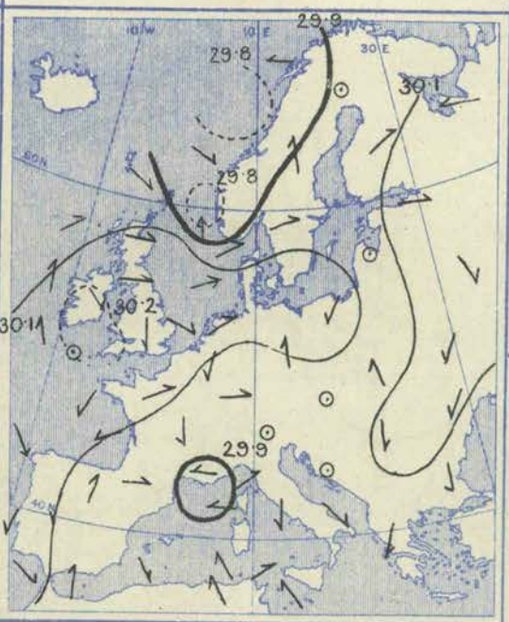
Wyman & Sons, Lt.h. 63, Carter Lane.

Tuesday, 28th July.

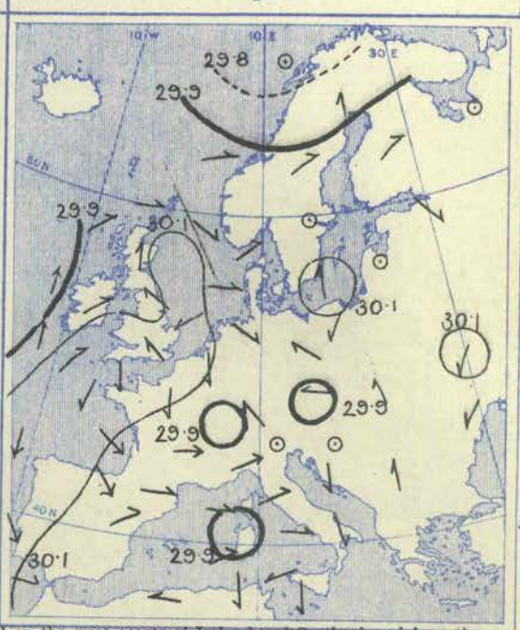
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but foggy in the west of Norway, with rain at Skudesnaes. Dull over Belgium, the east and south of France, and the northern parts of Spain and Italy, with rain in several places. Rain falling later in Germany, and large quantities over the central and southern parts of France. Dull, rainy weather setting in at night over the western parts of the United Kingdom.

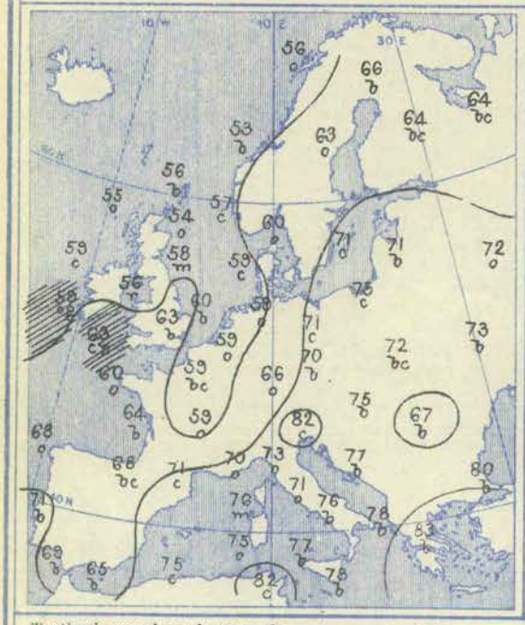
Temperature risen a little in the west and north of our Islands, and also in Italy, fallen or changed irregularly elsewhere. Morning readings highest, 87° at La Calle, 84° at Sfax, and 83° at Trieste and Patras; above 70° in most parts of southern and eastern Europe, as well as at some of the Baltic stations, and above 65° in the north of Scandinavia. Lowest, (1) 53° at Sumburgh Head and Yarmouth, and 54° at Stornoway; (2) 56° at Le Mans and Lyons, and 57° at Limoges. Rising during day to 70° or a little more in many parts of England, and to 75° and upwards in the south of Sweden, Germany, and the east and south of France; exceeding 90° in Italy, and reaching 93° at Florence and Rome.

Wind light from the Southward on the west coasts of Ireland and Scotland, and from the Westward in the east of Scotland; North-Westerly over England; North-Easterly over the Channel and Bay of Biscay. Strong from the South-Westward on the eastern shores of the North Sea; moderate from the same quarter over Sweden and Finland. Light and variable in Germany; calm in Austria; North-Easterly over the southern parts of Russia. Light to moderate from the Northward over southern Europe as a whole, but Easterly in the extreme south of France. Southerly winds setting in later over all but the south-eastern parts of the United Kingdom, and blowing strongly in Ireland.

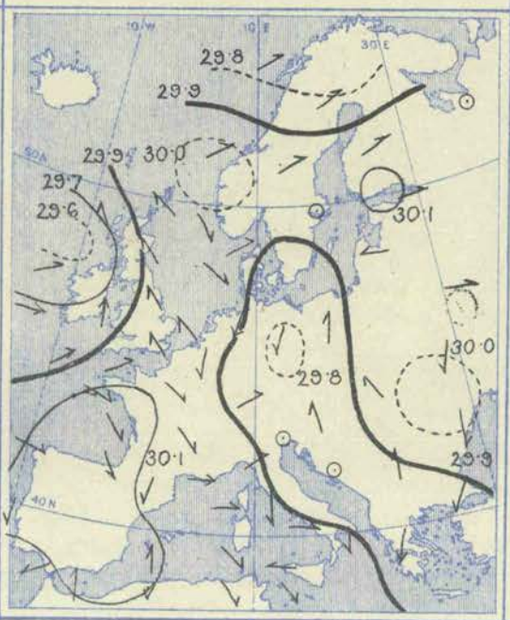
Barometer highest, 30·2 ins. and upwards in three areas—one lying over the south-western parts of the United Kingdom, another off the north-west of Spain, and a third over central Russia. Lowest, 29·8 ins. and less in a large depression off the west of Norway, and also in a well-marked secondary system near Skudesnaes; 29·9 ins. and less in a shallow disturbance over the Gulf of Lyons. Norwegian depression subsequently passing north-eastwards or filling up, but large disturbance beginning to approach our own western coasts.

Wednesday, 29th July.

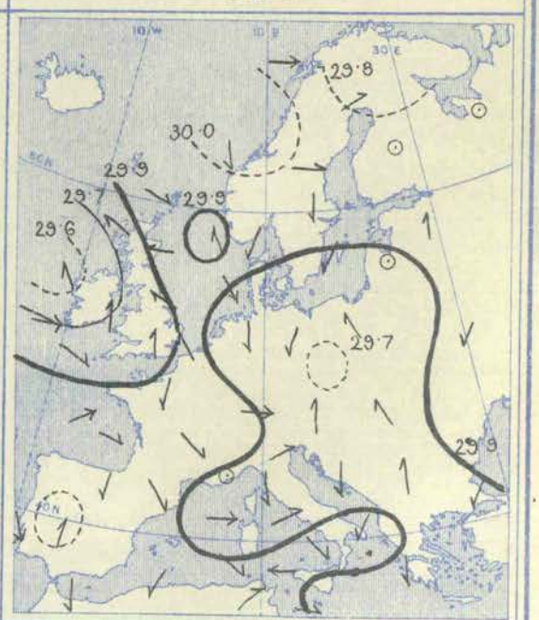
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy over the western parts of Great Britain and the north of Ireland; dull in the north and east of Scotland. Fine in England and many of the Continental countries, but cloudy in Scandinavia, Denmark, Germany, northern Italy, and the south of France; rain falling at Karlstad, and also at Belfort. Rain or passing showers reported later in many parts of western and southern Europe; amount large at some of our own north-western stations, and also over northern Italy.

Temperature risen in most of the western and central countries, but changed irregularly elsewhere. Morning readings highest, 83° at Patras, 82° at Trieste and Sfax, and 80° at Athens; above 70° over central, southern, and eastern Europe generally. Lowest, (1) 51° at Le Mans, and 57° at Limoges; (2) 53° at Christiansund, and 54° at Aberdeen and Ardrossan. Rising during day to 70° and upwards at several of the English stations, and to 76° at Cambridge. Exceeding 90° in many parts of Germany, Austria, and southern Italy, and reaching 95° at Hermanstadt.

Wind fresh from the Westward in the west and south of Ireland; strong from the Southward on the west coasts of Great Britain; light from the South-Eastward on our north and east coasts. South-Westerly over Finland and the northern parts of Scandinavia; South-Easterly in Poland; Easterly or North-Easterly over north Germany and the Baltic; Northerly in the Netherlands; North-Westerly over France. Northerly over southern Europe generally, but rather variable at the Mediterranean stations. Moderating later on our western coasts, and backing to the Eastward in Scotland.

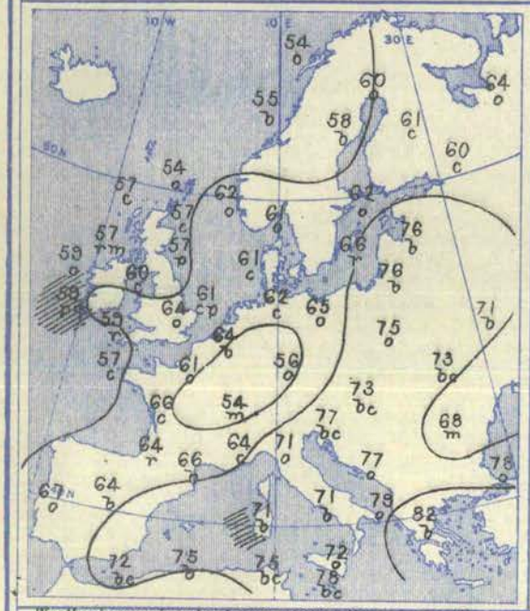
Barometer highest, 30·1 ins. and upwards in an anticyclone over the Spanish Peninsula, the Bay of Biscay, and the west of France; 30·0 ins. and upwards in another system over Russia. Lowest, 29·6 ins. and less in a depression off the north-west of Ireland; 29·8 ins. and less over the north of Scandinavia, and also in a shallow disturbance over Germany. Irish depression subsequently spreading slowly south-eastward.

Wyman & Sons, Lt., Lith. 63 Carter Lane.

Thursday, 30th July.

Temperature and Weather.

8 a.m.

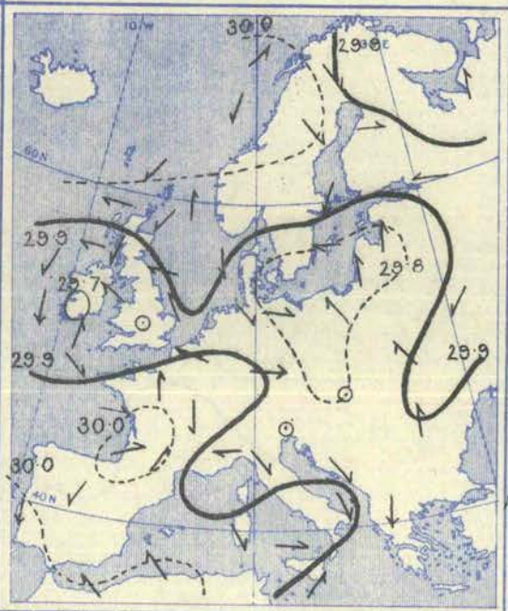


Weather in morning cloudy over western Europe generally, and also in Italy, with showers in many parts of England and Ireland, and with steady rain at Wisby, Wiesbaden, Biarritz, and Leghorn. Fine and bright over Austria and Russia, and also over the Spanish Peninsula. Improvement taking place in Ireland later, but rain falling in many parts of Great Britain and the Continent--amounts large at some of the northern French stations. Lightning seen in London in evening.

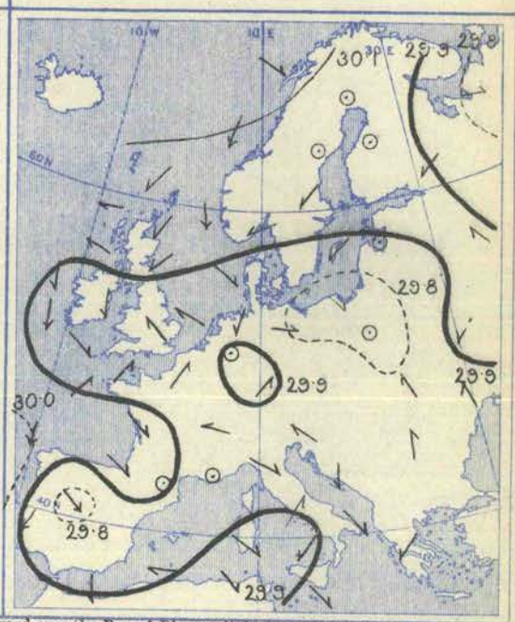
Temperature risen over western Europe generally, and also over Denmark and the Baltic, but fallen in most other localities. Morning readings highest, (1) 82° at Patras, 80° at Athens, and 79° at Sfax; (2) 79° at Memel and Neufahrwasser, and 76° at Riga; above 70° over the greater part of Russia, Italy, and Austria. Lowest, (1) 54° at Bodö and Sumburgh Head, and 55° at Christiansund, Wick, and Leith; (2) 54° at Limoges and Belfort, and 56° at Munich. Rising during day to 70° and upwards at several of the English stations, and also in Sweden; exceeding 80° in many parts of southern Europe, and exceeding 90° in some parts of Spain and Austria.

Barometer and Wind.

8 a.m.



6 p.m.



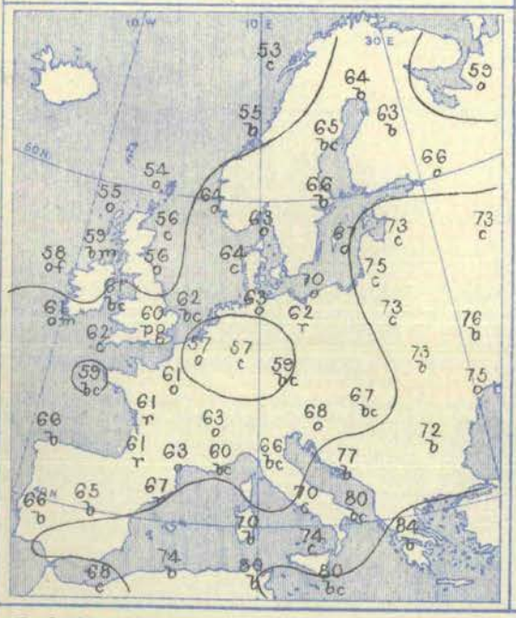
Wind moderate from the Westward over the Bay of Biscay; light from the South-Westward or Southward over the English Channel; South-Easterly in the east of England; Easterly or North-Easterly over Scotland and the north of Ireland; Northerly in the south of Ireland. Variable over the northern parts of Scandinavia; North-Easterly over Denmark and the south of Scandinavia, light from the North-Eastward in Germany; Southerly in Poland and Austria. Variable over the greater part of southern Europe. No important change occurring in our islands during day, but strong winds or gales from the North-Eastward setting in on the west coasts of Norway.

Barometer highest, 30·0 ins. and upwards, in a large area lying over Scandinavia and the adjacent parts of the Atlantic, and also in smaller systems lying respectively over the south-west of France, central Algeria, and Morocco, and the extreme south of Spain. Lowest, 29·7 ins. and less in a depression at the mouth of the St. George's Channel; 29·8 ins. and less in a large shallow area over Germany and the Baltic. Former depression subsequently moving south-eastwards across the south-west of England.

Friday, 31st July.

Temperature and Weather.

8 a.m.

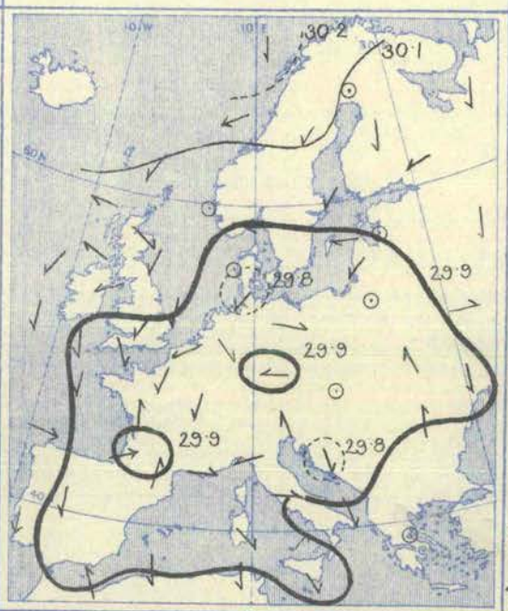


Weather in morning fair or fine over Europe as a whole, but dull in many parts of our Islands, France and Germany; showers falling at one or two stations in the south of England, and steady rain in the south west of France, and also at Berlin. Rain falling later at many stations in the western part of the Continent—heavily at Biarritz. Thunderstorms occurring in the south of France.

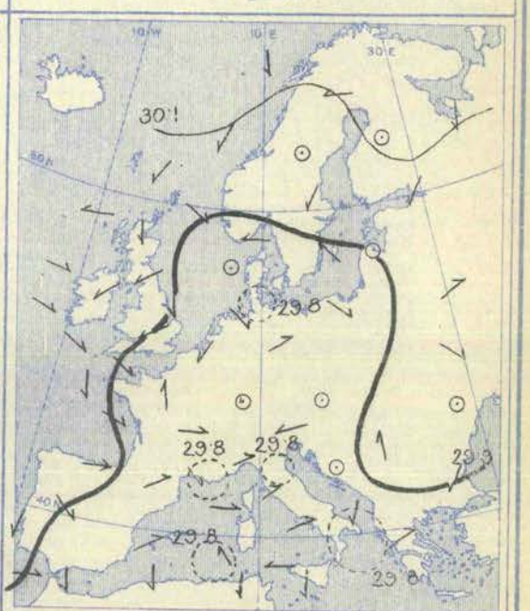
Temperature fallen over Austria, Poland, and the Baltic provinces, changed irregularly elsewhere. Morning readings highest 84° at Athens, 80° at Brindisi, Malta and Tunis, and 79° at Sfax; above 70° at the Mediterranean stations generally, and also over the western, central and southern parts of Russia. Lowest, (1) 53° at Bodö, and 54° at Sumburgh Head, (2) 54° at Le Mans, and 57°at Brussels and Wiesbaden. Daily maxima below 65° at most of our own Northern stations, but a little above 70° in the South, reaching 75° or more in Sweden. Exceeding 80° in most parts of southern and eastern Europe, and reaching 90° at Brindisi.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to moderate from the Eastward or North-Eastward over northern Russia, Scandinavia, and the greater part of the United Kingdom, but Northerly on our south west coasts. South-Westerly over the greater part of Germany, Italy, and the south of France; light and variable over Austria and the south of Russia, Northerly over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the north-west of Norway; 30·0 ins. and upwards in a large area lying to the westward of our Islands. Lowest, 29·8 ins. and less in two small depressions, one lying over Holstein and the other over Dalmatia (large area of relatively low pressure covering all the more central and southern parts of the Continent). No decided change occurring over western Europe later, but shallow depressions forming over various parts of the Mediterranean.

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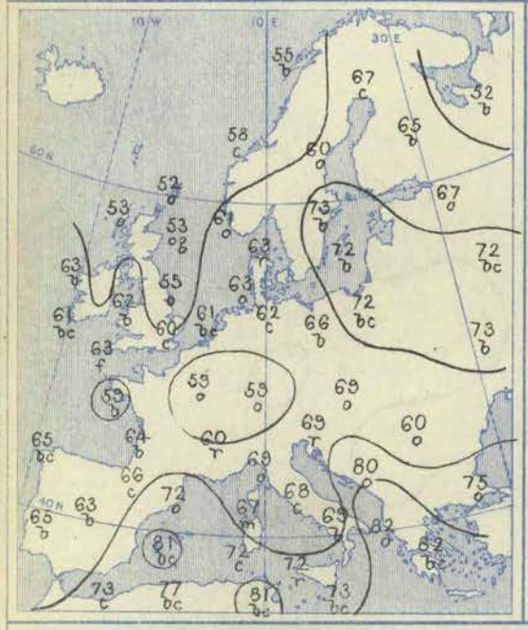
Saturday, 1st August.

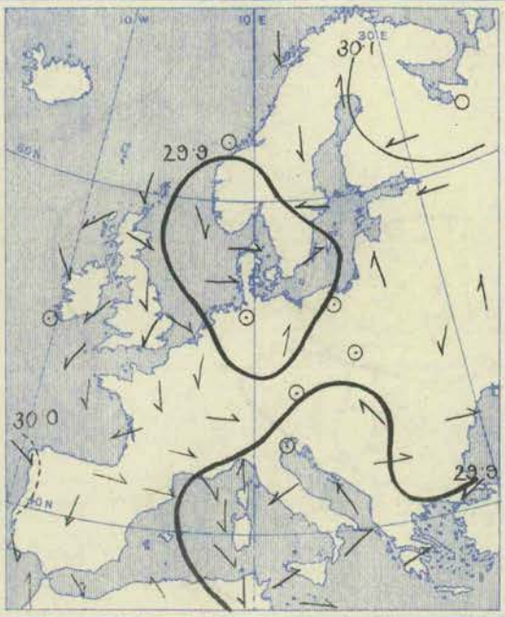
Temperature and Weather.

8 a.m.

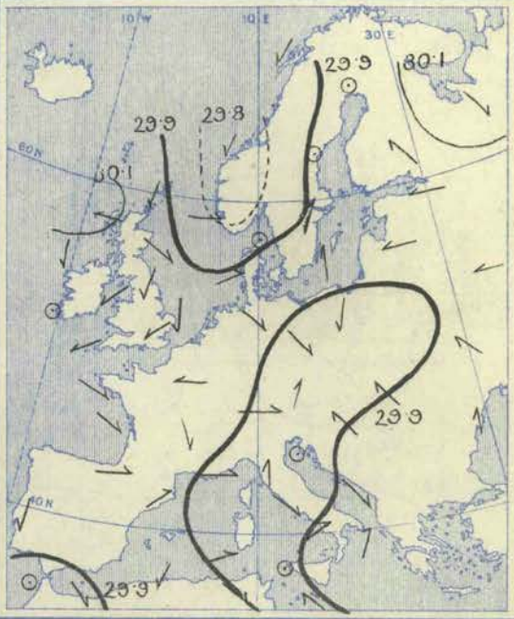


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the western and southern parts of our Islands and France, and also over the Spanish Peninsula, Russia, and the Baltic. Cloudy or dull elsewhere, with rain at Skagen, as well as at Lyons, Florence, and Trieste. Slight rain falling later in the north of Scotland, and larger amounts in several parts of Scandinavia, Denmark, Germany, and the south of France. Very heavy rain occurring in Austria—as much as 1·4 ins. at Trieste.

Temperature changed rather irregularly, but fallen a little in most places. Morning readings highest, 82° at Athens, 81° at Palma, and La Calle, and 77° at Algiers and Tunis; above 70° over the central and southern parts of Russia, and also in the south of Sweden. Lowest, (1) 52° at Sumburgh Head, and 53° at Stornoway, Wick, and Aberdeen; (2) 52° at Belfort, 57° at Limoges, and 58° at Le Mans. Daily maxima below 60° in the north of Scotland, but slightly above 70° at several of our southern stations. Exceeding 75° in central Sweden, and reaching 82° at Stockholm. Exceeding 80° also over Austria, Italy, and the south of France, the highest reading of all being 91° at Brindisi.

Wind light from the Northward or North-Westward over the North Sea and the eastern parts of Great Britain, but from the North-Eastward in other parts of our Islands, and also in the north of France. Variable in Scandinavia; light from the Eastward or South-Eastward over Russia and eastern Germany. Variable over southern Europe and the Mediterranean. No important change occurring over western Europe during day; but wind falling light and variable in our southern districts.

Barometer highest, 30·1 ins. and upwards over northern Russia, 30·0 ins. and upwards in an area lying over Scotland and to the westward of Ireland, and also in other systems lying respectively off the Portuguese coasts and over the south of Russia. Lowest, 29·8 ins. and less in four small depressions—one lying over the south of Norway, another over the central parts of the Adriatic, the third between Sardinia and Sicily, and the fourth over Morocco. Norwegian depression subsequently moving northwards; no important change occurring over western Europe during day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week pressure was highest over northern Europe, but relatively high also in the south-west. Over the more western countries the weather was affected partly by a large depression which moved eastwards across Scotland, and partly by shallow secondary systems which passed over England, the progress of the latter being attended by thunderstorms and heavy rain in many parts of England, France, and the Netherlands.

On July 27th and 28th the main depression moved away to the north-eastward, and the anticyclone over northern Europe receded eastwards. A new high pressure system now spread over our Islands and the neighbouring countries from the south-westward, and the weather in those regions improved temporarily. Over southern Europe, however, these conditions were affected by small shallow depressions which occasioned heavy falls of rain, especially in the south of France and northern Italy.

The anticyclone over our Islands soon broke up, and on the 29th a well-marked depression appeared off the north-west of Ireland, the system afterwards moving south-eastwards across our south-west coasts to France, where it dispersed. During its progress rain fell in nearly all parts of the United Kingdom, and also in the north of France, the amount being heavy in isolated places. At the close of the week a large high pressure system was spreading over our Islands from Scandinavia, and light North-Easterly breezes were reported, with improving weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 182.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	39·3	+ 7·3	35	+ 5	SOUTHPORT	34·5	?	31	?
OSWALDKIRK (Yorkshire)	24·8	- 8·6	23	- 7	MANCHESTER (Oldham Road)	22·9*	?	21*	?
WORKSOP	26·3	- 8·4	25	- 7	COLWYN BAY	57·0	?	52	?
THURCASTON (Leicestershire)	44·9	+ 8·1	41	+ 7	TENBY	59·5*	+17·5	55*	+ 15
MARGATE	47·0	+ 3·9	44	+ 4	NEWQUAY	51·5	+ 6·5	49	+ 5
WESTBOURNE (Sussex)	53·6*	+ 6·6	50*	+ 5	TORQUAY	42·5*	- 3·5	40*	- 2
BRIGHTON	61·8	+13·9	58	+ 11	ARLEY COTTAGE (County Cavan)	36·8	+ 6·6	33	+ 4
EASTBOURNE	66·1	+18·1	62	+ 17	GUERNSEY	64·3*	+10·9	61*	+ 10

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 32.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 8TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95 RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 188.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
								For the Week.				From December 29th, 1895.			
		Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	65	39	58·4	47·0	52·4	2 below	73	−14	0	0	1404	+243	305	−318
	1. SCOTLAND, EAST	71	39	61·8	47·2	54·1	3 below	85	−18	0	0	1679	+244	408	−241
	2. ENGLAND, N.E.	69	44	61·0	50·8	55·6	3 below	95	−20	0	0	1790	+285	327	−222
	3. ENGLAND, EAST	71	40	64·5	49·0	56·2	5 below	99	−27	0	0	2011	+236	388	−229
	4. MIDLAND COUNTIES	75	40	64·9	47·8	55·9	4 below	97	−24	0	0	2067*	+277	372	−247
	5. ENGLAND, SOUTH	73	46	66·8	52·3	59·1	3 below	120	−13	0	0	2226	+308	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	40	62·8	48·3	55·1	2 below	92	−13	0	0	1784	+273	234	−228
	7. ENGLAND, N.W.	69	44	62·2	51·5	56·5	3 below	102	−14	0	0	1986	+364	201	−258
	8. ENGLAND, S.W.	74	39	66·2	51·7	58·5	2 below	116	− 5	0	0	2212	+396	155	−206
	9. IRELAND, NORTH	72	39	61·5	49·1	54·9	3 below	90	−16	0	0	1908*	+298	162	−233
	10. IRELAND, SOUTH	72	41	64·4	51·4	57·5	1 below	109	− 6	0	0	2215	+384	89	−210
	—CHANNEL ISLANDS	75	55	67·4	56·7	61·7	0 (average)	138	+ 4	0	0	2531	+502	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 188.)	Rainfall. For the Week.			Rainfall. From December 29th, 1895.				Bright Sunshine. For the Week.				Bright Sunshine. From December 29th, 1895.			
		Number of Rainy Days	Total Fall.	More or less than the mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	2	8 less	147	+ 3	31·1	+ 2·8	27	+ 6	25	+ 6	718	− 62	24	− 2
	1. SCOTLAND, EAST	4	3	5 less	115	− 2	14·0	− 4·7	26	− 6	24	− 5	932	+ 29	31	+ 1
	2. ENGLAND, N.E.	4	6	1 less	94	−16	10·2	− 4·4	14	−20	13	−18	918*	+ 20	31	+ 1
	3 ENGLAND, EAST	4	6	0 (average)	96	−11	10·8	− 3·8	25	−18	24	−16	1095	+ 41	37	+ 1
	4. MIDLAND COUNTIES	2	3	3 less	91	−14	10·5	− 5·4	24	−11	22	−11	986	+ 43	34	+ 1
	5. ENGLAND, SOUTH	2	5	1 less	83	−17	9·2	− 6·5	33	−12	31	−13	1140	+ 42	39	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	9 less	121	− 2	24·3	− 2·6	44	+10	41	+ 9	972	+ 15	33	+ 1
	7. ENGLAND, N.W.	2	1	7 less	106	− 7	16·7	− 1·8	27	− 4	26	− 4	961	+ 80	35	+ 3
	8. ENGLAND, S.W.	3	3	6 less	90	−24	12·5	− 8·7	53	+10	51	+ 9	1250	+103	43	+ 4
	9. IRELAND, NORTH	3	1	8 less	126	− 7	21·3	+ 0·5	33	+11	35	+ 9	866	− 21	29	− 1
	10. IRELAND, SOUTH	1	less than ½	8 less	104	−17	17·5	− 4·8	48	+16	45	+15	1014	+ 15	35	+ 1
	—CHANNEL ISLANDS	2	8	1 more	98	−21	9·8	− 7·7	60	+ 4	58	+ 5	1397	+ 86	48	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued very dry over the British Islands generally, and especially over the western and central districts until Thursday, when it became showery in all districts, and afterwards very rainy in the south and east, with thunderstorms at several stations, and halos, solar and lunar, in many places.

Temperature was below its mean value for the time of year in all districts, the deficiency ranging from 5° in England E., and 4° over our Midland counties, to 3° in England S., N.E., N.W., and Ireland N., and to 1° in Ireland S. In the Channel Islands the average for the week and the mean coincided exactly. The highest of the maxima occurred at the beginning of the week, and ranged from 75° in the Channel Islands and over the Midland counties, and 74° over England S.W., to 69° in England N.W. and N.E., 66° in Scotland W., and 65° in Scotland N. The lowest of the minima occurred about the middle of the week, and ranged from 39° in Scotland N. and E. and Ireland N., and from 40° over Scotland W., the Midland counties and England E. to 46° in England S., and to 55° over the Channel Islands. Frost occurred on the grass over the inland parts of Scotland and the north of England.

Rainfall was just equal to its normal value over the eastern parts of England, but notwithstanding the fall of Saturday, was slightly less than the mean over the south of England, and much less than the mean (the amounts being in fact hardly anything at all) over Ireland and the north-western and northern parts of Great Britain.

Bright Sunshine was in excess over the western half of the Kingdom, but defective in the east. The percentage of the possible duration ranged from 13 in England N.E., to 48 in England S.W., and to 58 in the Channel Islands.

Barometer and Wind.—During the greater part of the week anticyclonic conditions continued prevalent over nearly the whole of the Kingdom, the centre of the system lying either over Ireland or the parts of the Atlantic adjoining, while the lowest pressures were found to the eastward of the Kingdom. Gradients were slight, and the wind mainly Northerly. After Thursday, however, low-pressure systems appeared over the Netherlands, France, and the south-east of England. The wind then freshened from north-east at our southern and eastern stations, and at times blew strongly, with squally and very showery weather.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 187 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	57	43	55·6	47·0	51·0	− 2·4	63	0	4	0·24	−0·46	*	*	*	*
	Stornoway	59	44	57·9	48·0	52·7	− 2·0	75	0	3	0·12	−0·66	26·9	0·0	24	0
	Wick	62	40	59·0	46·0	52·1	− 0·9	71	0	4	0·19	−0·43	*	*	*	*
	Glencarron Ⓢ	61	39	57·5	45·8	51·3	− 3·4	65	0	6	0·33	−1·18	*	*	*	*
	Fort Augustus Ⓢ															
	Fort William Ⓢ	65	39	62·0	48·2	54·7	− 2·2	89	0	3	0·16	−1·17	27·4	+ 6·9	25	+ 6
1. SCOTLAND, E.	Nairn	65	39	59·9	46·7	52·9	− 4·3	76	0	5	0·44	−0·26	*	*	*	*
	Aberdeen	63	43	59·9	47·4	53·3	− 3·6	79	0	4	0·21	−0·54	23·6	−10·4	21	−10
	Braemar Ⓢ	65	43	58·9	45·0	51·5	− 2·6	67	0	4	0·21	−0·55	28·2†	+ 1·9†	26†	+ 2†
	Ochtertyre Ⓢ	71	43	67·6	46·6	56·5	− 1·4	102	0	2	0·11	−0·79	*	*	*	*
	Leith	71	48	64·9	50·7	57·4	− 1·4	108	0	4	0·27	−0·42	*	*	*	*
	Marchmont Ⓢ	63	45	59·4	46·9	52·8	− 3·7	76	0	5	0·45	−0·42	25·0	−10·0	23	− 9
2. ENGLAND, N.E.	Alnwick Castle	62	44	58·7	49·9	54·0	− 3·1	84	0	4	0·53	−0·22	*	*	*	*
	Durham	66	45	61·6	49·2	55·0	− 3·6	91	0	6	0·43	−0·31	13·8	−19·9	13	−18
	Shields	61	50	60·1	52·4	56·0	− 2·2	98	0	3	0·56	−0·12	*	*	*	*
	Scarborough Ⓜ	63	49	59·7	51·1	55·1	− 3·8	92	0	4	1·35	+0·65	*	*	*	*
	York	69	45	64·0	49·1	56·1	− 3·3	99	0	3	0·71	+0·03	15·8	−19·0	15	−18
	Spurn Head	66	51	62·0	53·3	57·4	− 2·3	108	0	3	0·03	−0·43	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	71	40	64·1	47·7	55·4	− 5·0	84	0	5	0·65	−0·08	26·5	−14·3	25	−13
	Yarmouth	63	49	62·3	52·0	56·8	− 3·9	104	0	5	1·08	+0·45	*	*	*	*
	Geldeston	69	42	64·6	47·4	55·5	− 4·9	95	0	4	0·40	−0·20	21·8	−22·0	21	−21
	Cambridge	70	43	66·6	48·9	57·2	− 4·4	106	0	2	0·39	−0·21	30·7	−11·0	29	−10
	Rothamsted	67	45	64·7	48·9	56·3	− 4·1	100	0	2	0·54	−0·06	22·5	−21·1	21	−21
4. MIDLAND COUNTIES	Harrogate Ⓜ	66	44	61·3	47·7	54·1	− 4·7	85	0	4	0·50	?	8·1	?	8	?
	Bawtry (Hesley Hall)	69	43	64·4	47·4	55·4	− 4·8	94	0	1	0·55	−0·06	*	*	*	*
	Loughborough	69	40	65·3	47·9	56·1	− 5·5	99	0	2	0·20	−0·37	*	*	*	*
	Stamford (Ketton Hall)	69	42	67·4	47·7	57·0	− 4·3	105	0	0	—	−0·60	*	*	*	*
	Cheadle Ⓜ	64	44	61·7	48·6	54·8	− 3·3	90	0	2	0·13	−0·65	*	*	*	*
	Shirley (near Solihull)	70	42	65·3	47·3	55·8	− 4·5	97	0	3	0·11	?	*	*	*	*
	Churchstoke Ⓜ	69	41	64·1	47·3	55·2	− 2·9	92	0	2	0·13	−0·50	27·8	− 9·3	26	− 9
	Hereford Ⓜ	75	44	67·7	47·2	56·8	− 3·4	104	0	2	0·71	+0·12	*	*	*	*
	Cirencester	73	43	65·3	47·9	56·1	− 2·7	99	0	1	0·03	−0·74	34·1	− 6·7	32	− 7
	Oxford	71	44	66·9	49·3	57·6	− 3·3	109	0	2	0·74	+0·14	29·7	−12·3	28	−13
5. ENGLAND, S.	London	70	47	66·7	50·6	58·2	− 3·9	113	0	3	0·49	−0·10	25·6†	−12·9†	24†	−13†
	North Foreland	68	53	64·0	55·1	59·3	− 1·7	121	0	4	1·25	?	*	*	*	*
	Dungeness	72	46	66·9	51·3	58·6	− 3·5	116	0	2	0·64	+0·14	*	*	*	*
	Hastings (St. Leonards)	69	50	66·3	51·7	58·6	− 2·9	116	0	4	0·37	−0·25	39·5	− 8·5	38	− 8
	Southampton	73	48	68·6	52·0	59·8	− 2·4	125	0	1	0·51	−0·17	28·2	−17·8	27	17
	Hurst Castle	71	49	68·4	54·7	61·1	− 1·1	134	0	1	0·48	−0·10	*	*	*	*
	Stowell Ⓜ	71	47	66·9	50·5	58·2	− 1·9	113	0	2	0·07	−0·63	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	41	60·9	45·4	52·7	− 4·2	75	0	4	0·08	−1·17	*	*	*	*
	Glasgow	65	45	63·2	49·0	55·7	− 1·3	96	0	3	0·15	−0·75	37·6	+ 7·8	34	+ 6
	Ardrossan	65	45	62·9	50·1	56·1	− 1·8	99	0	1	0·01	−0·83	*	*	*	*
	Glenlee Ⓢ	66	40	63·1	46·1	54·1	− 3·2	85	0	0	—	−1·12	*	*	*	*
	Douglas (Isle of Man)	66	48	64·0	50·7	57·0	− 0·2	105	0	1	0·03	−0·82	50·7	+12·0	47	+11
7. ENGLAND, N.W.	Stonyhurst	66	45	61·8	49·1	55·1	− 3·3	92	0	2	0·06	−1·12	26·7	− 6·3	25	− 6
	Blackpool Ⓜ	67	44	64·5	50·8	57·2	− 2·5	106	0	2	0·11	−0·72	32·5	− 3·3	30	− 3
	Manchester (Prestwich)	64	45	61·5	48·0	54·4	− 4·5	87	0	2	0·03	−0·89	18·9	?	18	?
	Liverpool Obsy. (Bidston)	69	49	63·0	53·4	57·9	− 2·0	111	0	2	0·14	−0·61	*	*	*	*
	Llandudno Ⓜ	68	50	62·6	54·1	58·1	− 2·5	113	0	2	0·32	−0·33	*	*	*	*
	Holyhead	62	52	59·7	53·4	56·4	− 1·5	101	0	2	0·09	−0·55	*	*	*	*
8. ENGLAND, S.W.	Llandovery	71	39	67·7	46·0	56·1	− 2·8	99	0	2	0·54	−0·53	*	*	*	*
	Pembroke	69	51	62·6	54·0	58·0	− 1·0	112	0	2	0·08	−0·60	46·7	+ 4·9	44	+ 3
	Clifton	70	50	66·9	53·2	59·6	− 1·0	123	0	1	0·22	−0·65	*	*	*	*
	Arlington (N. Devon)	69	45	63·1	49·3	55·8	− 2·9	97	0	3	0·12	−1·16	*	*	*	*
	Cullompton Ⓜ	74	47	69·1	50·0	59·0	− 1·4	119	0	1	0·07	−0·63	45·1	+ 6·3	43	+ 6
	Falmouth	71	51	65·3	54·3	59·5	− 1·1	123	0	3	0·50	−0·33	61·7	+16·4	59	+15
	Plymouth	68	51	66·4	53·4	59·5	− 1·9	123	0	4	0·41	−0·36	51·4	+ 9·3	49	+ 8
	Prawle Point	72	50	68·3	53·0	60·2	+ 0·5	127	0	3	0·19	−0·45	*	*	*	*
9. IRELAND N.	Malin Head	60	53	58·0	53·1	55·4	− 2·3	94	0	2	0·06	?	*	*	*	*
	Londonderry	72	47	63·5	49·5	56·1	− 1·9	99	0	5	0·26	−0·68	*	*	*	*
	Edenfel (Omagh)	60	42	57·1	46·4	51·4	− 5·2	66	0	4	0·07	−0·83	*	*	*	*
	Belmullet	62	51	60·4	54·3	57·2	− 0·9	106	0	2	0·12	−0·97	*	*	*	*
	Markree Castle	64	39	61·9	47·5	54·3	− 2·9	83	0	3	0·06	−0·94	36·6	+10·4	34	+ 9
	Armagh	65	42	63·3	44·5	53·3	− 4·1	79	0	2	0·06	−0·68	38·5	+12·3	36	+11
	Donaghadee	66	46	64·0	49·7	56·4	− 1·3	101	0	3	0·06	−0·71	*	*	*	*
	Edgeworthstown	67	42	63·9	47·6	55·3	− 2·0	93	0	0	—	−1·01	*	*	*	*
10. IRELAND, S.	Dublin	66	47	63·2	51·6	57·1	− 2·5	106	0	2	0·04	−0·68	51·4	+16·6	48	+15
	Parsonstown	67	45	64·4	49·3	56·7	− 1·5	103	0	1	0·02	−0·86	42·0	+12·4	40	+13
	Kilkenny	71	41	65·1	48·1	56·1	− 2·6	99	0	1	0·05	−0·65	*	*	*	*
	Roche's Point	68	51	65·9	53·9	59·5	− 0·3	123	0	0	—	−0·88	*	*	*	*
	Valencia	69	48	63·9	52·6	57·9	− 1·0	111	0	1	0·01	−1·00	49·8	+17·2	47	+16
	Killarney	72	50	64·1	51·8	57·6	− 1·0	109	0	2	0·11	?	*	*	*	*
	Foynes	70	48	64·1	51·6	57·5	− 0·7	103	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	56	65·3	57·3	61·1	+ 0·4	134	0	2	0·55	−0·10	63·5	?	61	?
	Jersey	75	55	69·4	56·0	62·3	− 0·6	142	0	2	0·98	+0·33	55·5	+ 2·0	54	+ 2

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

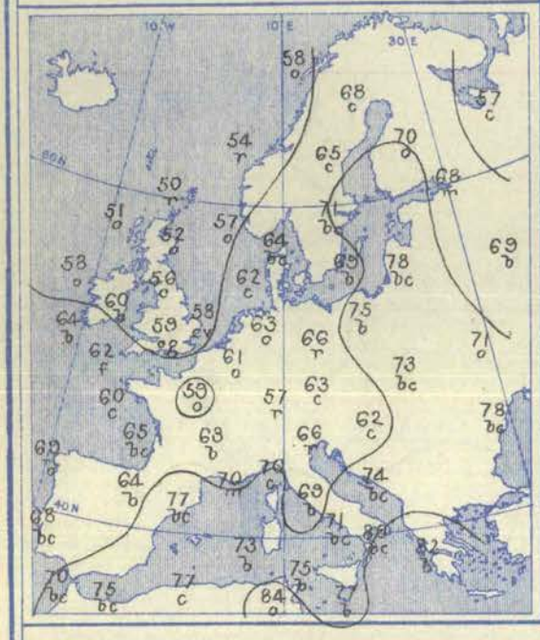
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 2nd August.

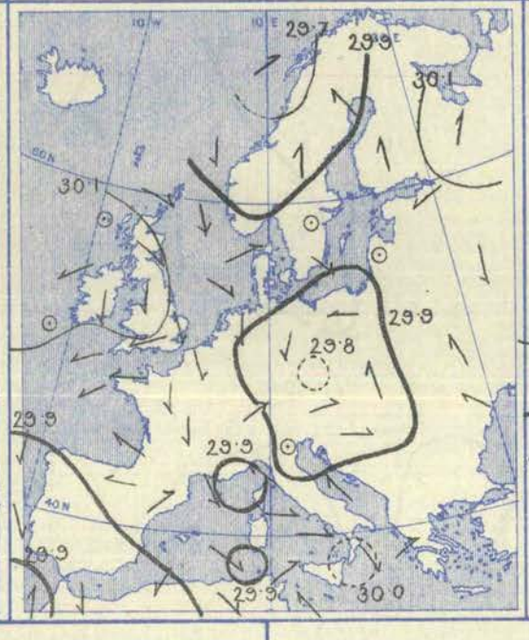
Temperature and Weather.

8 a.m.

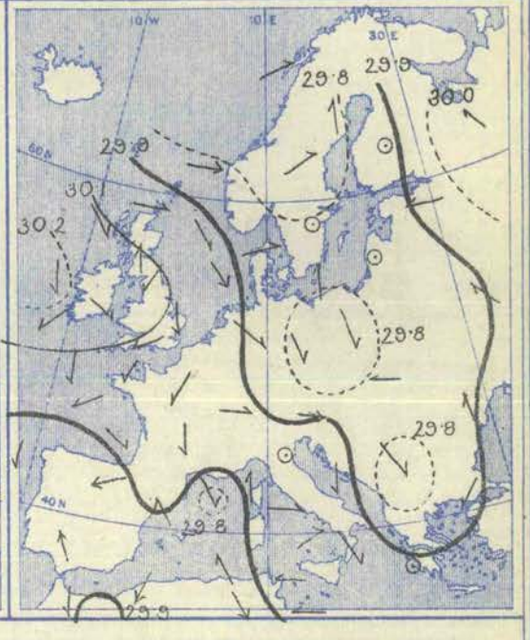


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Russia and the Baltic, as well as over the Spanish Peninsula and the south-west of France; cloudy elsewhere, with a little rain in some parts of our Islands, and larger quantities over central Europe. Raining later over Scandinavia, Germany, Austria, and the south of France—largest amount 2·06 ins. at Trieste.

Temperature in morning highest, (1) 82° at the Greek stations, 80° at Brindisi, and above 70° at most of the Mediterranean stations and over south-eastern Europe, 67° at Jersey, 64° at Prawle Point; (2) 76° at Riga, 73° at Helsingfors, 70° at Kuopio. Lowest, 50° at Sumburgh Head, 51° at Stornoway, 52° at Aberdeen, 56° at York. Rising later to 60° and more over our northern districts, to 71° at Scilly, 74° at Jersey, and touching 81° in the west and south-west of France, 92° at Brindisi and Tunis, 90° at Cagliari.

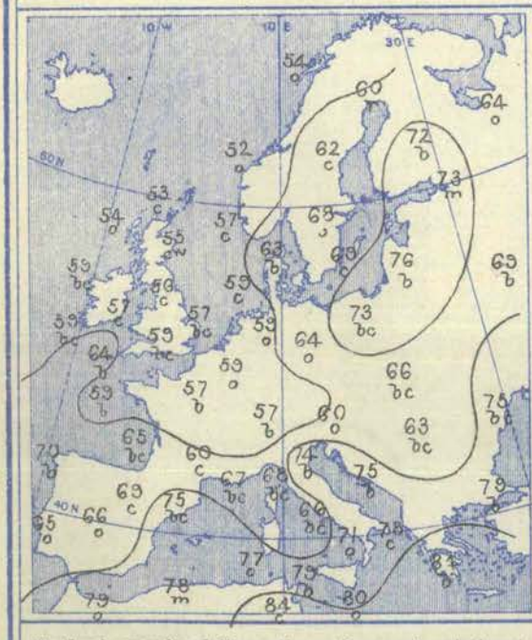
Wind very light generally—anticyclonic from North and East over our Islands, and from East and South over the north of Russia; cyclonic over Scandinavia, central and southern Europe. Freshening considerably at many of the Continental stations later.

Barometer highest, 30·1 ins. and more over the west and north of our Islands, and also over the north of Russia. Lowest, below 29·7 ins. over Finmark; below 29·8 ins. over south Germany, and below 29·9 ins. over the Riviera and the south of Scandinavia. Falling somewhat over central, south-eastern, and southern Europe later.

Monday, 3rd August.

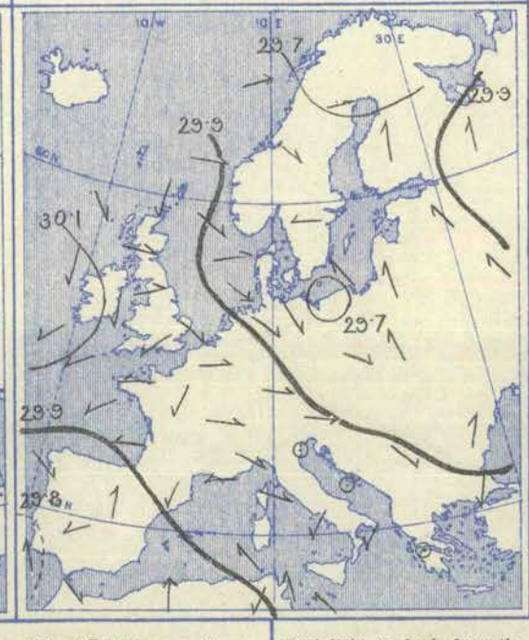
Temperature and Weather.

8 a.m.

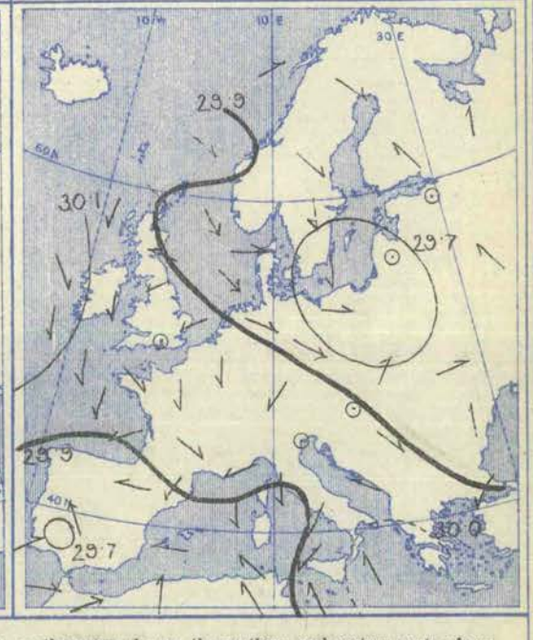


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the northern and central parts of Great Britain, as well as at the Scandinavian, German, and Austrian stations, with rain at Haparanda and Swinemünde. Fine in nearly all other parts of Europe, but dull at some of the Spanish stations. A little rain falling later in many parts of Great Britain, and also in the neighbouring parts of the Continent. Thunderstorm occurring at Lyons and lightning seen at Biarritz, and heavy local rain at Limoges and in several parts of Russia and Hungary.

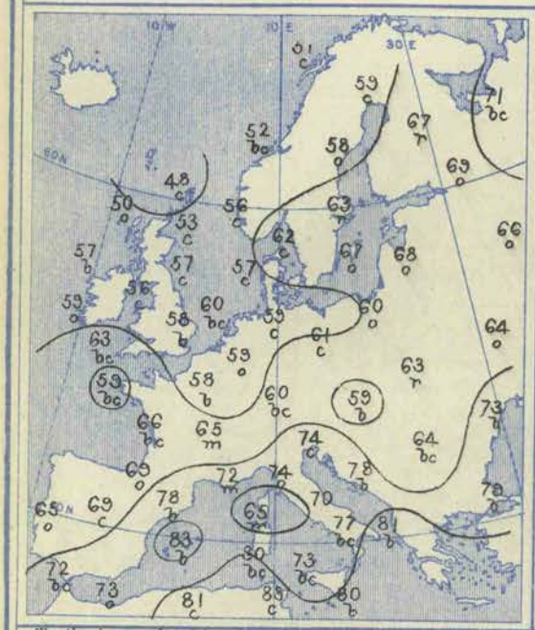
Temperature changed very irregularly. Morning readings highest, (1) 84° at Athens and Sfax, 80° at Malta, and 79° at Palermo and Constantinople. (2) 76° at Riga, 74° at Helsingfors, and 73° at St. Petersburg and Neufahrwasser. Lowest, 52° at Christiansund, 53° at Sumburgh Head, and 54° at Bodö and Stornoway. Daily maxima below 60° at several of our northern and north-western stations, but thermometer reaching 70° or more in the south and east of England, and also in Sweden. Exceeding 80° over the southern parts of France, touching 86° to 90° in some places, as well as in the south of Italy.

Wind light to fresh from the north-westward over the northern and eastern parts of our Islands generally, and also over Denmark, Germany, and the south of Norway. North-Easterly or Easterly over the south of our Islands and the greater part of France. Light from the southward or south-eastward over Russia, but Westerly in Austria, and variable over Italy and the Spanish Peninsula. Subsequently shifting to the eastward on the east coasts of Great Britain, and to the southward in the south-east of England; no important change occurring elsewhere.

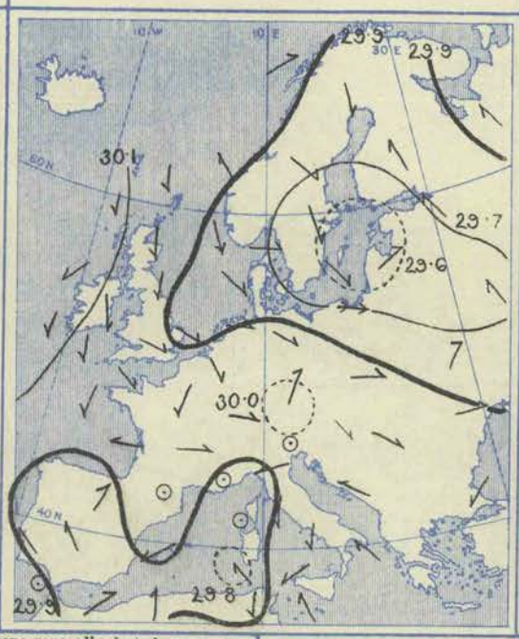
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over and to the westward of Ireland. Lowest, 29·7 ins. and less in two depressions, one lying over Lapland and the other over the Baltic; 29·8 ins. and less in a shallow system over the south-western parts of the Spanish Peninsula. Slight fall of barometer taking place over western Europe during day, but general distribution of pressure remaining unchanged.

Tuesday, 4th August.

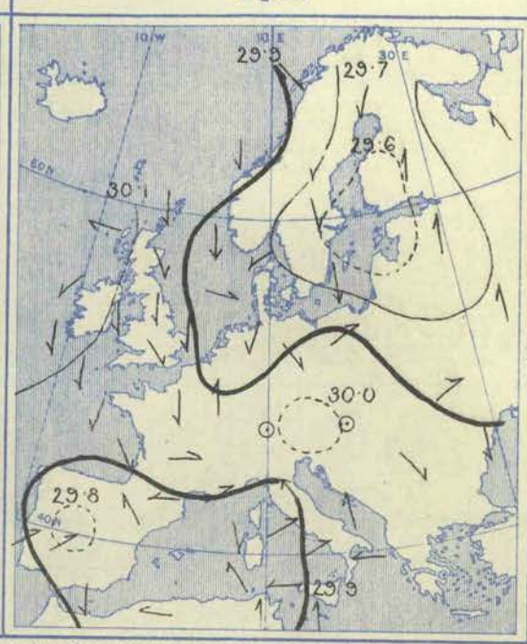
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western and southern Europe generally, but showery at some of our eastern coast stations, and also in Holland. Dull over Sweden, the Baltic, Russia, and eastern Austria, with rain in several places. Showers falling later in the eastern parts of Great Britain generally, and steady rain at many of the Scandinavian stations, and in the south of France. Thunderstorms with rain occurring at Cuxhaven, Biarritz, and over many parts of central France.

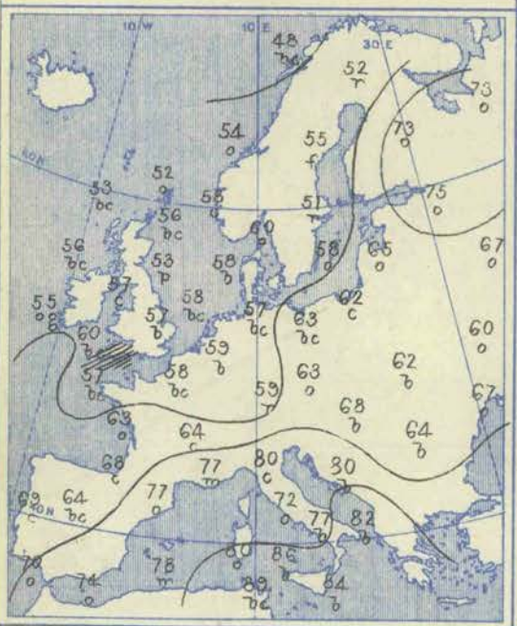
Temperature highest, 88° at Sfax, 83° at Palma and Tunis, and 81° at Brindisi; above 70° in many parts of southern and eastern Europe, as well as at Archangel and Memel. Lowest, 48° at Sumburgh Head, 50° at Stornoway, 51° at Bodö, and 52° at Christiansund, Nairn, and Aberdeen. Daily maxima below 60° on many parts of our own north and north-west coasts, and below 70° at all but a few of our extreme southern stations; thermometer rising to between 75° and 80° in France, and reaching 81° at Nice. Succeeding night cold over the northern and central parts of Great Britain; thermometer on grass falling to 32° at Loughborough.

Wind light to fresh from the northward in the western and northern parts of the United Kingdom, and from the north-westward in the south-east of England, as well as in Sweden and Denmark, Westerly or South-Westerly in Germany; light from the south-eastward over the northern and central parts of Russia. Easterly or North-Easterly over the Spanish Peninsula and the west of France; calm in the south of France; variable in Italy. Subsequently veering to the northward in the south-east of England; no important change occurring elsewhere.

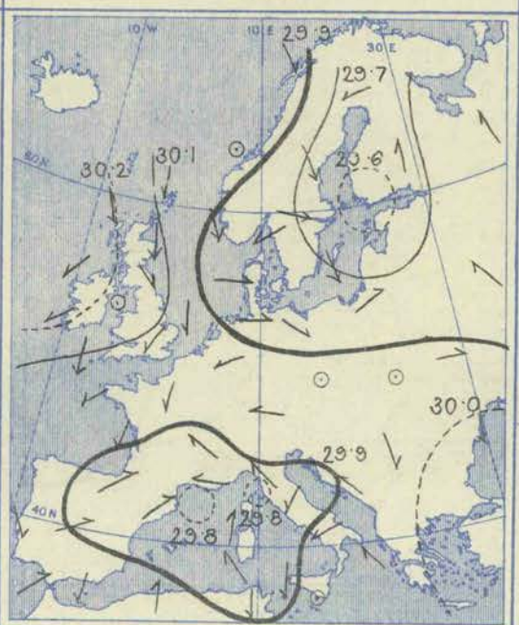
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over and to the westward of Ireland; 30·0 ins. and upwards over the southern parts of Germany and Italy; 29·9 ins. and upwards over northern Russia. Lowest, 29·6 ins. and less in a depression over the northern parts of the Baltic; 29·8 ins. and less in a shallow disturbance off the Scandinavian coast. Small secondary depressions moving southward down the North Sea during day.

Wednesday, 5th August.

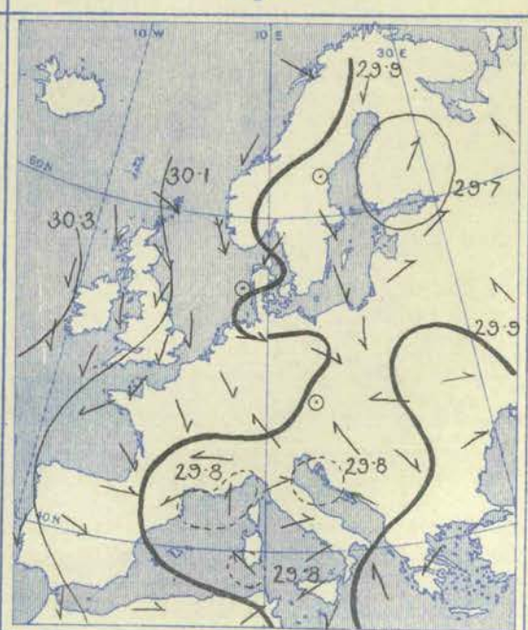
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Spain, the Bay of Biscay, Ireland, and Scotland, with some parts of England and France; very clear over Austria-Hungary; cloudy and unsettled over northern and eastern Europe, with rain over Sweden and Finland; showery on our north-east coast and at Cape Gris Nez. Slight showers in some parts of our Islands later, steady (and in places heavy) rains over Sweden and central Europe, and thunderstorms very prevalent over the southern parts of France.

Temperature decreasing somewhat in most places in Europe. Morning readings highest, 89° to 86° over Tunis and Sicily, and 82° at Brindisi; below 80° elsewhere. Exceeding 60° over central and northern Europe, 75° to 73° over the north of Russia. Lowest, below 60° over our Islands and Scandinavia generally, 48° at Bodö, 52° at Sumburgh Head, 53° at Nairn, York, and Loughborough. Below 70° all over the British Isles throughout the day, but exceeding 70° at Berlin and Paris, and exceeding 80° at Lyons, Nice, and Perpignan, and rising to between 90° and 98° in the south of Italy. Very low again over central England at night.

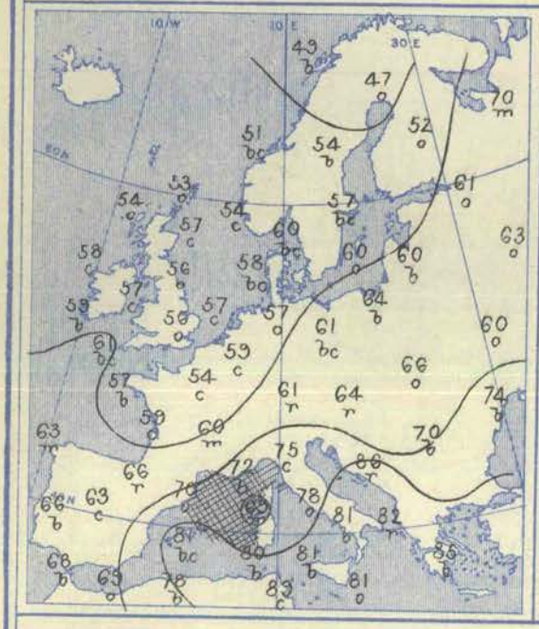
Wind Northerly over Scandinavia, the British Isles, and Bay of Biscay, and blowing a fresh to strong breeze in many localities; Southerly over Finland; South-Westerly over the Baltic provinces. Very light and anticyclonic over south-eastern Europe; moderate and cyclonic over the Mediterranean. No great change later.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over the British Islands, and exceeding 30·0 ins. off the coast of Portugal; (2) 30·0 ins. and more over Turkey in Europe. Lowest, below 29·6 ins. in a depression over the south of Finland, and below 29·9 ins. over the Mediterranean. Falling a little in latter region by evening; not much change elsewhere.

Thursday, 6th August.

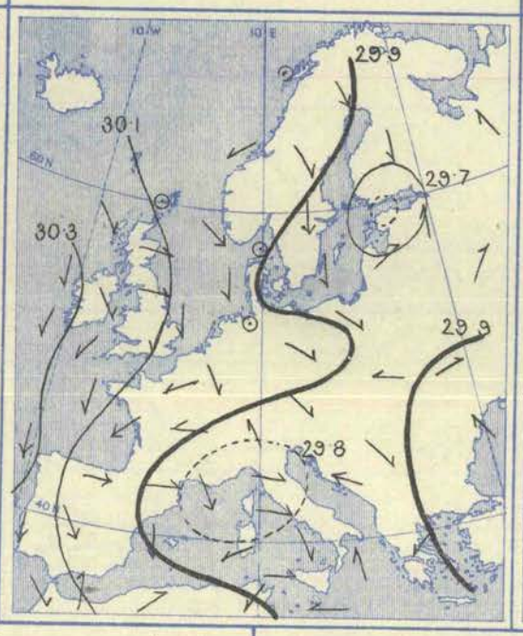
Temperature and Weather.

8 a.m.

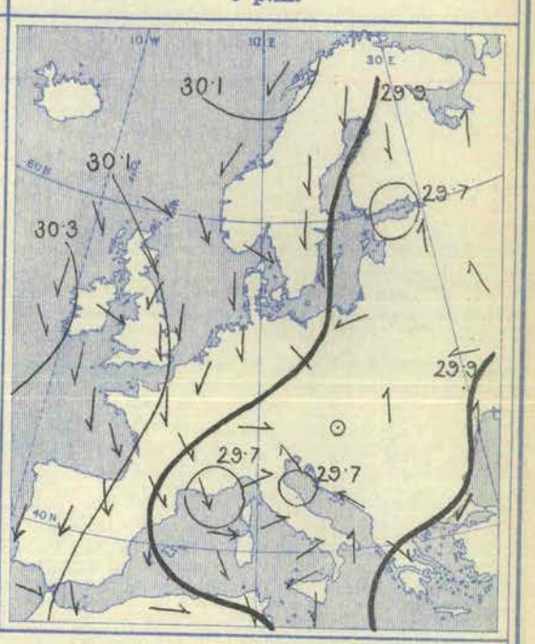


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over western and north-western Europe as a whole, but rainy and unsettled on the eastern shores of the Baltic, as well as over Austria, south Germany, and the Adriatic. Heavy rain at Munich later, and a considerable quantity in the south of France; lightning observed at Biarritz. Slight showers in the west and north of our Islands.

Temperature in morning highest, (1) 89° at Sfax, 82° at Brindisi, 81° at Naples and Palma, 75° at Leghorn, and also at Bilbao, 70° at Hermanstadt, 61° at Scilly, and 58° at Belmullet and Wick; (2) 70° at Archangel, 63° at Moscow. Lowest, 49° at Bodö, 51° at Christiansund, 53° at Sumburgh Head, 52° at Parsonstown, 55° at York. Rising later to 68° at Oxford and York, to 70° at Fanö, Hurst Castle, and Wiesbaden, 71° at Paris, 77° at Lorient, and to 82° at Nice. Succeeding night again cool over England.

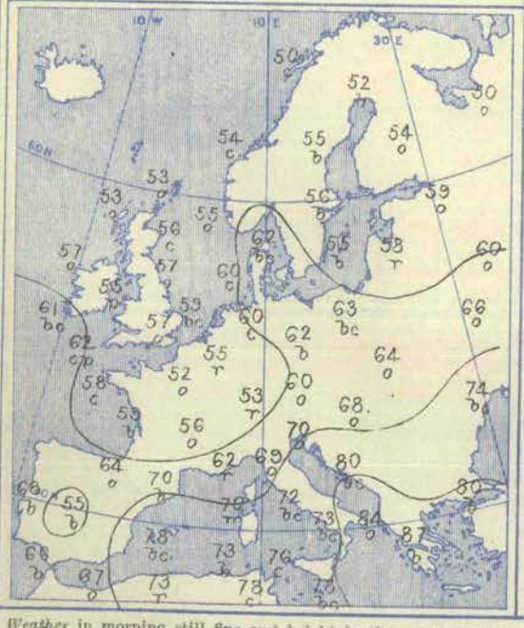
Wind mainly Northerly (North-West to North-East) over the western half of Europe; very variable over Russia and Poland; light to moderate in force at the western stations; very light indeed in the east. No decided change later.

Barometer highest, 30·3 ins. and more to 30·1 ins. over the British Islands, the north of France, Brittany, and the western parts of the Spanish Peninsula. Lowest, below 29·6 ins. in a depression over the Gulf of Finland, and below 29·8 ins. all over the northern and western parts of Russia, as well as over the north of Italy, the Riviera, and Corsica. Hardly any change later.

Friday, 7th August.

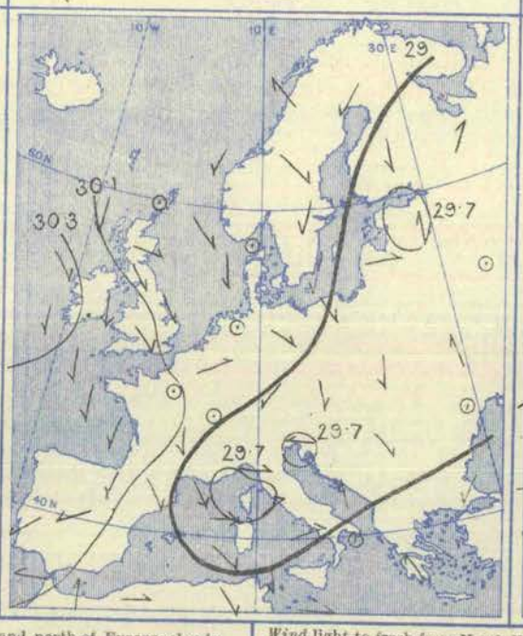
Temperature and Weather.

8 a.m.

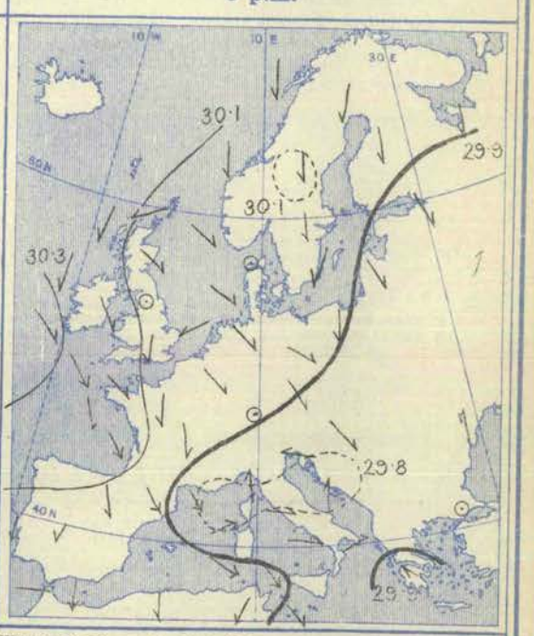


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright in the extreme west and north of Europe, cloudy elsewhere, and less settled than of late, both over the North Sea and Great Britain. Considerable rain falling over Austria, the Riviera, and north of Italy; slight showers at Holyhead and Scilly. Rain falling later in small quantities over the greater part of our Islands, and in larger quantities over several parts of southern and central Europe. Thunderstorm reported at Yarmouth, and halos in many parts of England. Much rain over central Russia, Austria, Hungary, and the north of Italy, with thunder and lightning in places.

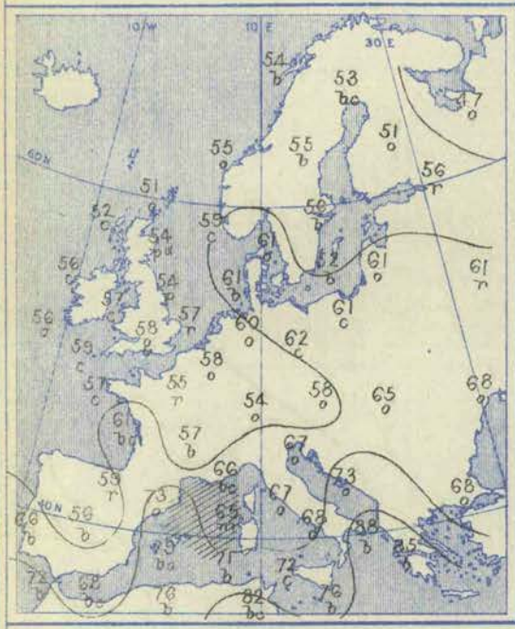
Temperature in morning highest, 87° at Athens, 84° at Brindisi, 80° at Constantinople and Lesina; much lower elsewhere. Lowest, 50° at Bodö, 53° at Sumburgh Head and Stornoway, and below 60° over the United Kingdom generally. Failing to reach 70° over the greater part of our Islands during the day, but touching that value at Hurst Castle, Berlin, and Rochefort, 73° at Nice, 82° at Lisbon and San Fernando, 97° at Brindisi, and 100° Fahr. at Biskra.

Wind light to fresh from North-West or North over the British Islands, France, the North Sea, and the Baltic; very strong from the North-Westward at Toulon; extremely variable over south-eastern Europe and Russia. Becoming variable in the north-east and east of England later, but falling light in force.

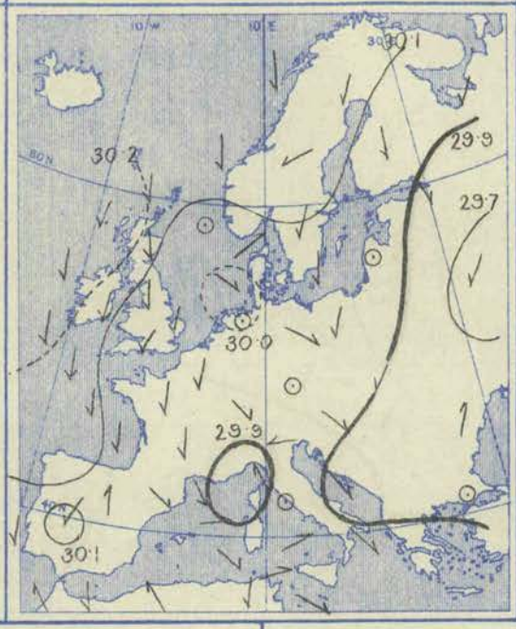
Barometer highest, 30·1 ins. to 30·3 ins. and more over all the western and southern parts of our Islands, the western half of France, and the whole of Spain, and exceeding 30·0 ins. over the northern parts of Scandinavia. Lowest, 29·7 ins. to 29·8 ins. in a complex system of depressions covering southern and south-eastern Europe and the Gulf of Finland, and below 30·0 ins. over the eastern side of the North Sea; falling somewhat over England and France rising over northern Europe.

Saturday, 8th August.

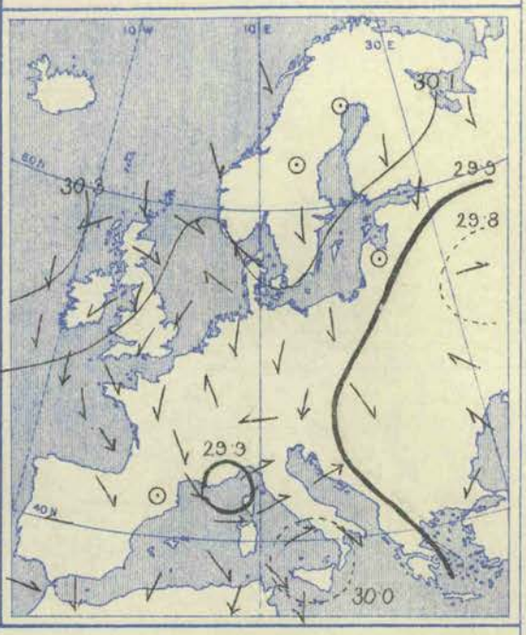
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the northern parts of Scandinavia on the one hand, and over the Iberian Peninsula and west of France on the other; cloudy or overcast elsewhere; showery over the United Kingdom, especially in the east; rainy over the north-east of France, Belgium, and many parts of Russia; heavy rain later over the southern and north-eastern counties of England, and very general rain over France, Germany, and Denmark; thunderstorms at several of our southern stations, and hail in some localities.

Temperature falling over our Islands and the Mediterranean. Morning readings highest, 88° at Brindisi, 85° at Athens, but below 80° at by far the major part of the Mediterranean stations, 66° at Nice and at Lisbon, 63° at Jersey, 68° at Odessa, 65° at Lemberg, 61° at Moscow and Riga. Lowest, 47° at Archangel, 51° at Kuopio, and at Sumburgh Head, 53° at Nairn, and below 60° over the British Islands generally, not touching 60° in Scotland later, but rising to between 60° and 65° over Ireland and England, to 70° in the west of France, and 75° at Nice.

Wind North-Easterly light over the extreme northern countries; Northerly moderate to fresh over the British Islands and Bay of Biscay; light and very variable over central Europe; moderate and cyclonic over the Mediterranean and Algeria; freshening a little over the east of England later.

Barometer highest, 30·2 ins. and more over the extreme western and north-western parts of the United Kingdom, and still higher over the Atlantic. Lowest, below 29·9 ins. over the northern parts of the Mediterranean; below 29·7 ins. over central Russia, and below 30·0 ins. in some very shallow disturbances over the North Sea, Holstein, and the extreme south-east of England. Latter systems becoming more strongly marked later, and spreading down the English Channel.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout this week pressure was highest over the Atlantic and the western parts of Europe, while it was lowest over the northern, the central and southern stations, and for some days the western high pressure system spread well over the British Islands. The United Kingdom was therefore marked by light winds and fair weather, while over the northern, central, and southern countries, the wind was fresher and cyclonic, and a great deal of rain fell from time to time, the falls being especially due to local thunderstorms of great violence. Temperature over the British Islands was low, but over some of the extreme southern and south-eastern countries very high values were recorded.

Later in the week the western anticyclone moved further to the northwards, and as shallow depressions were then developed over France and the English Channel, rainy, unsettled weather spread for a time almost all over the British Islands, and was heavy at our south-eastern and southern stations, where thunderstorms prevailed locally, and some hail was reported. These conditions were still in force when the week closed.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	26·6	- 6·2	24	- 6	SOUTHPORT	24·1	?	23	?
OSWALDKIRK (Yorkshire)	10·8	-21·6	10	- 19	MANCHESTER (Oldham Road)	18·6*	?	18*	?
WORKSOP	11·6	-22·9	11	- 21	COLWYN BAY	41·0*	?	39*	?
THURCASTON (Leicestershire)	29·7	- 7·0	28	- 7	TENBY	*		*	
MARGATE	34·6	- 8·1	33	- 8	NEWQUAY	68·4	+23·3	66	+ 22
WESTBOURNE (Sussex)	32·7*	-13·8	31*	- 14	TORQUAY	46·7*	+ 0·7	45*	+ 1
BRIGHTON	40·3	- 7·7	38	- 9	ARLEY COTTAGE (County Cavan)	38·1	+ 8·3	36	+ 7
EASTBOURNE	33·7	-16·1	29	- 16	GUERNSEY	61·1*	+ 7·7	59*	+ 7

* The values at Manchester, Westbourne, Colwyn Bay, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 33.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 15TH, 1896. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95 RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 194.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	40	59·7	49·2	54·1	1 below	85	− 1	0	0	1492*	+245	305	−318
	1. SCOTLAND, EAST	77	33	64·2	49·1	56·2	0 (average)	99	− 3	0	0	1778	+241	408	−241
	2. ENGLAND, N.E.	74	48	64·3	53·2	58·6	0 (average)	116	+ 3	0	0	1906	+288	327	−222
	3. ENGLAND, EAST	77	45	67·9	53·0	60·0	0 (average)	126	0	0	0	2137	+236	388	−229
	4. MIDLAND COUNTIES	77	42	67·3	52·2	59·3	0 (average)	121	+ 1	0	0	2188	+278	372	−247
	5. ENGLAND, SOUTH	81	42	69·9	54·5	61·7	0 (average)	138	+ 5	0	0	2364	+313	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	40	63·3	51·0	56·8	0 (average)	104	+ 1	0	0	1888	+274	234	−228
	7. ENGLAND, N.W.	69	48	63·9	53·9	58·6	1 below	116	0	0	0	2132	+365	201	−258
	8. ENGLAND, S.W.	76	41	67·2	53·8	60·1	0 (average)	127	+ 7	0	0	2339	+403	155	−206
	9. IRELAND, NORTH	73	35	62·8	52·4	57·2	0 (average)	106	0	0	0	2014	+298	162	−233
	10. IRELAND, SOUTH	71	43	65·6	54·0	59·4	1 above	122	+ 7	0	0	2337	+391	89	−210
	—CHANNEL ISLANDS	71	55	66·1	57·2	61·4	0 (average)	136	+ 2	0	0	2667	+504	39	−109

Rainfall.

	DISTRICTS. (See p. 194.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	1 less	152	+ 3	31·9	+ 2·6
	1. SCOTLAND, EAST	5	6	2 less	120	− 2	14·6	− 4·8
	2. ENGLAND, N.E.	5	4	2 less	99	−14	10·6	− 4·6
	3 ENGLAND, EAST	4	3	3 less	100	−10	11·1	− 4·1
	4. MIDLAND COUNTIES	2	1	5 less	93	−15	10·6	− 5·9
	5. ENGLAND, SOUTH	3	5	1 less	86	−17	9·7	− 6·5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	6	4 less	126	− 1	24·9	− 3·0
	7. ENGLAND, N.W.	4	2	6 less	110	− 7	16·9	− 2·4
	8. ENGLAND, S.W.	1	1	8 less	91	−27	12·6	− 9·4
	9. IRELAND, NORTH	4	4	5 less	130	− 8	21·7	0·0
	10. IRELAND, SOUTH	2	1	7 less	106	−19	17·6	− 5·6
	—CHANNEL ISLANDS	2	3	3 less	100	−23	10·1	− 8·0

Bright Sunshine.

	DISTRICTS. (See p. 194.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	24	+ 3	22	+ 2	740*	− 61	24	− 2
	1. SCOTLAND, EAST	28	− 4	27	− 3	960	+ 25	31	+ 1
	2. ENGLAND, N.E.	27	− 6	26	− 5	945	+ 17	31	+ 1
	3 ENGLAND, EAST	30	−12	30	−11	1125	+ 30	37	+ 1
	4. MIDLAND COUNTIES	32	− 6	31	− 5	1018	+ 38	34	+ 1
	5. ENGLAND, SOUTH	36	− 9	35	− 9	1176	+ 33	39	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	+16	47	+15	1021	+ 31	33	+ 1
	7. ENGLAND, N.W.	26	− 4	25	− 3	987	+ 76	35	+ 3
	8. ENGLAND, S.W.	49	+ 6	48	+ 5	1300*	+110	43	+ 4
	9. IRELAND, NORTH	31	+ 3	29	+ 2	897	− 18	29	− 1
	10. IRELAND, SOUTH	38	+ 6	37	+ 5	1052	+ 21	35	+ 1
	—CHANNEL ISLANDS	58	+ 5	57	+ 4	1455	+ 91	48	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied considerably; over central and south-western England and in southern Ireland it was generally fine and dry, while in most other places dull and rainy conditions alternated with fine, dry intervals. Sharp thunderstorms were experienced at many of our south-eastern and eastern stations during the early days of the week, and in the north-eastern districts towards its close.

Temperature was almost identical with the mean. The highest of the maxima were recorded during the middle part of the week, and ranged from 81° in England S., and 77° in England E., the Midland counties, and Scotland E., to 69° in Scotland W. and England N.W. The lowest of the minima were registered on rather irregular dates, and ranged from 33° in Scotland E., and 35° in Ireland N. to 48° in England N.W. and N.E., and to 55° in the Channel Islands.

Rainfall varied a good deal in different parts of the Kingdom, but was less than the mean in all districts. In the Midland counties, England S.W., and Ireland S. the fall was very slight, while in some parts of Scotland and in the south of England it nearly approached the mean amount.

Bright Sunshine exceeded the mean in most of the western parts of the Kingdom, but was deficient in all the more eastern districts. The percentage of the possible duration ranged from 57 in the Channel Islands, 48 in England S.W., and 47 in Scotland W., to 25 in England N.W., and 22 in Scotland N.

Barometer and Wind.—At the commencement of the week pressure was highest off our western coasts, while a complex system of low pressure lay to the southward and south-eastward of our Islands, the winds being generally moderate from the Westward. The high pressure soon spread over our western districts, and began to move slowly southwards, and the low pressure area over France filled up. A new series of depressions then appeared in the north and travelled over our northern districts, and the winds consequently became North-Westerly and Westerly. By the end of the week the anticyclone had moved north-westward again, the wind returning to the northward.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 193 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head S	58	45	55·7	48·9	52·1	− 0·8	71	0	5	0·65	−0·10	*	*	*	*
	Stornoway S	62	47	58·4	49·7	53·8	− 0·7	83	0	7	0·82	−0·00	10·8	−15·7	10	−15
	Wick S	67	44	59·6	48·7	53·8	− 0·9	83	0	6	0·95	+0·33	*	*	*	*
	Glencarron S	62	42	58·1	47·3	52·4	− 2·3	73	0	6	1·14	−0·38	*	*	*	*
	Fort Augustus S	70	40	64·4	49·9	56·7	+ 0·2	103	0	?5	0.45	−0·22	25·8	+ 9·0	24	+ 8
	Fort William S	67	43	62·1	50·6	56·0	− 1·0	98	0	4	0·99	−0·37	34·7	+15·1	32	+14
1. SCOTLAND, E.	Nairn S	67	39	61·9	48·3	54·7	− 2·1	89	0	5	0·59	−0·08	*	*	*	*
	Aberdeen S	68	42	62·9	49·3	55·3	− 1·2	93	0	5	0·92	+0·19	29·8	− 4·2	28	− 4
	Braemar S	70	33	61·5	46·1	53·3	− 0·4	79	0	5	0·57	−0·25	25·7†	− 0·1†	24†	− 0†
	Ochtertyre S	77	38	69·7	49·9	59·2	+ 1·7	120	0	4	0·31	−0·59	*	*	*	*
	Leith S	71	43	65·9	51·1	58·1	− 0·3	113	0	4	0·45	−0·20	*	*	*	*
	Marchmont S	73	43	64·1	49·7	56·5	+ 0·2	100	0	4	0·76	−0·07	29·3	− 4·8	28	− 5
2. ENGLAND, N.E.	Alnwick Castle S	67	43	63·7	53·0	58·0	+ 1·2	112	0	5	0·58	−0·15	*	*	*	*
	Durham S	74	49	66·8	51·9	58·9	+ 0·5	118	0	6	0·60	−0·10	25·1	− 8·0	24	− 8
	Shields S	70	50	64·3	53·1	58·4	+ 0·5	115	0	5	0·58	0·09	*	*	*	*
	Scarborough S	69	50	63·0	53·6	58·0	− 0·7	112	0	6	0·46	−0·18	*	*	*	*
	York S	72	49	66·9	52·6	59·3	+ 0·1	121	0	3	0·13	−0·50	29·0	− 4·5	28	− 4
	Spurn Head S	68	52	63·9	54·7	59·0	− 0·5	119	0	2	0·08	−0·37	*	*	*	*
3. ENGLAND, E.	Hillington S	75	45	67·6	51·9	59·3	− 0·8	121	0	4	0·29	−0·39	24·8	−15·0	24	−15
	Yarmouth S	74	54	65·7	56·1	60·6	+ 0·3	130	0	6	0·35	−0·23	*	*	*	*
	Geldeston S	77	47	68·8	52·1	60·0	− 0·2	126	0	3	0·33	−0·17	32·5	−10·5	32	−10
	Cambridge S	76	46	69·9	52·1	60·5	− 0·7	130	0	3	0·20	−0·37	35·4	− 5·7	34	− 6
	Rothamsted S	73	49	67·6	52·6	59·7	− 0·3	124	0	2	0·24	−0·36	28·8	−13·9	28	−14
4. MIDLAND COUNTIES	Harrogate S	70	48	64·6	51·4	57·6	+ 0·8	103	0	2	0·02	?	32·5	?	31	?
	Bawtry (Hesley Hall) S	70	49	66·6	52·0	58·9	− 0·7	118	0	1	0·04	−0·53	*	*	*	*
	Loughborough S	74	49	67·4	53·6	60·1	− 1·0	127	0	2	0·22	−0·35	*	*	*	*
	Stamford (Ketton Hall) S	74	44	70·0	51·6	60·3	− 0·8	128	0	2	0·28	−0·28	*	*	*	*
	Cheadle S	69	48	64·0	51·3	57·3	− 0·4	107	0	3	0·20	−0·58	*	*	*	*
	Shirley (near Solihull) S	72	48	67·0	51·7	58·9	− 1·3	118	0	1	0·02	?	*	*	*	*
	Churchstoke S	69	42	65·5	50·9	57·8	+ 0·1	111	0	2	0·02	−0·61	28·0	− 9·1	27	− 8
	Hereford S	74	51	68·7	54·3	61·1	+ 1·1	134	0	1	0·01	−0·57	*	*	*	*
	Cirencester S	77	45	69·4	51·9	60·1	+ 1·6	127	0	1	0·01	−0·73	49·2	+ 8·7	48	+ 9
	Oxford S	75	48	69·7	53·0	60·9	+ 0·3	132	0	3	0·14	−0·42	36·9	− 4·7	36	− 5
5. ENGLAND, S.	London S	76	48	71·0	53·3	61·6	− 0·4	137	0	3	0·50	−0·06	25·1	−12·9†	24†	−13†
	North Foreland S	74	53	68·0	56·9	62·1	+ 1·4	141	0	4	0·63	?	*	*	*	*
	Dungeness S	71	42	68·7	53·6	60·7	− 1·2	131	0	3	0·36	−0·14	*	*	*	*
	Hastings (St. Leonards) S	73	49	65.5	54·4	61·0	− 0·5	133	0	3	1·23	+0·65	37·6	− 9·2	37	− 8
	Southampton S	81	49	73·5	54·8	63·6	+ 1·6	151	0	4	0·21	−0·44	44·3	− 1·7	43	− 2
	Hurst Castle S	76	52	71·4	56·1	63·2	+ 1·4	149	0	2	0·08	−0·49	*	*	*	*
	Stowell S	72	47	68·4	52·2	59·8	− 0·6	125	0	4	0·21	−0·47	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) S	64	44	60·9	50·5	55·3	− 1·4	93	0	6	1·59	+0·34	*	*	*	*
	Glasgow S	67	44	63·5	51·2	57·0	+ 0·3	105	0	3	0·37	−0·55	46·6	+17·6	44	+16
	Ardrossan S	66	44	62·3	51·9	56·8	− 1·1	104	0	5	0·53	−0·34	*	*	*	*
	Glenlee S	68	40	64·5	49·4	56·5	− 0·5	102	0	5	0·44	+0·66	*	*	*	*
	Douglas (Isle of Man) S	69	48	65·2	52·0	58·2	+ 1·1	113	0	3	0·17	−0·70	51·6	+14·2	49	+13
7. ENGLAND, N.W.	Stonyhurst S	65	50	62·4	51·8	56·8	− 1·3	104	0	4	0·34	−0·84	24·8	− 7·4	24	− 7
	Blackpool S	68	48	65·4	54·0	59·3	− 0·2	121	0	2	0·13	−0·67	35·4	− 0·1	34	0
	Manchester (Prestwich) S	65	51	63·4	52·3	57·5	− 1·2	109	0	3	0·16	−0·72	22·1	?	21	?
	Liverpool Obsy. (Bidston) S	67	50	64·0	54·4	58·9	− 0·8	118	0	4	0·19	−0·51	*	*	*	*
	Llandudno S	68	55	64·7	56·6	60·4	− 0·0	129	0	4	0·16	−0·46				
	Holyhead S	69	52	63·3	54·3	58·5	− 0·9	116	0	3	0·07	−0·59	*	*	*	*
8. ENGLAND, S.W.	Llandovery S	72	41	68·3	50·3	58·7	− 0·4	117	0	2	0·17	−0·90	*	*	*	*
	Pembroke S	65	52	63·1	55·6	59·1	− 0·0	120	0	2	0·07	−0·60	49·8	+ 7·6	48	+ 6
	Clifton S	71	50	68·3	55·9	61·7	+ 1·5	138	0	1	0·04	−0·78	*	*	*	*
	Arlington (N. Devon) S	69	48	65·3	52·9	58·7	+ 0·3	117	0	3	0·16	−1·08	*	*	*	*
	Cullompton S	74	45	69·6	52·9	60·8	+ 0·6	132	0	0	—	−0·67	51·2	+11·4	50	+11
	Falmouth S	68	52	64·8	54·6	59·4	− 1·1	122	0	2	0·03	−0·80	51·3	+ 5·3	50	+ 4
	Plymouth S	70	47	66·9	53·5	59·8	− 1·4	125	0	0	—	−0·70	41·6	− 0·5	41	0
	Prawle Point S	76	50	71·0	54·4	62·2	+ 2·5	141	0	0	—	−0·59	*	*	*	*
9. IRELAND N.	Malin Head S	60	53	58·3	54·4	56·2	− 1·5	99	0	6	0·89	?	*	*	*	*
	Londonderry S	71	51	63·6	53·6	58·3	+ 0·4	114	0	5	0·56	−0·35	*	*	*	*
	Edenfel (Omagh) S	62	35	59·1	49·4	54·0	− 2·2	84	0	3	0·19	−0·68	*	*	*	*
	Belmullet S	63	52	60·6	55·4	57·8	− 0·4	111	0	4	0·33	−0·75	*	*	*	*
	Markree Castle S	69	36	62·5	50·3	56·0	− 1·0	98	0	6	0·76	−0·22	27·4	+ 0·2	26	0
	Armagh S	70	43	65·1	50·7	57·5	+ 0·1	109	0	4	0·12	−0·62	32·0	+ 6·0	30	+ 5
	Donaghadee S	73	50	66·3	54·1	59·8	+ 2·3	125	0	3	0·11	−0·64	*	*	*	*
	Edgeworthstown S	70	46	65·1	51·2	57·7	+ 0·5	110	0	3	0·36	−0·61	*	*	*	*
10. IRELAND, S.	Dublin S	71	50	65·7	55·1	60·1	+ 0·7	127	0	4	0·29	−0·41	34·0	− 0·9	33	− 1
	Parsonstown S	69	46	65·6	53·0	59·4	+ 1·3	122	0	3	0·21	−0·66	36·6	+ 7·0	36	+ 7
	Kilkenny S	70	43	66·9	52·7	59·4	+ 0·6	122	0	1	0·02	−0·74	*	*	*	*
	Roche's Point S	71	50	68·6	54·4	61·1	+ 1·4	134	0	0	—	−0·90	*	*	*	*
	Valencia S	65	51	63·6	54·4	58·7	− 0·3	117	0	3	0·08	−0·98	44·7	+11·9	43	+11
	Killarney S	69	44	65·2	52·8	58·6	− 0·3	116	0	2	0·16	?	*	*	*	*
	Foynes S	66	48	63·6	54·4	58·7	+ 0·4	117	0	2	0·18	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) S	67	55	64·6	56·6	60·4	− 0·1	129	0	1	0·02	−0·58	57·0	?	56	?
	Jersey S	71	55	67·6	57·7	62·4	− 0·4	143	0	3	0·52	−0·08	56·3	+ 2·7	56	+ 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

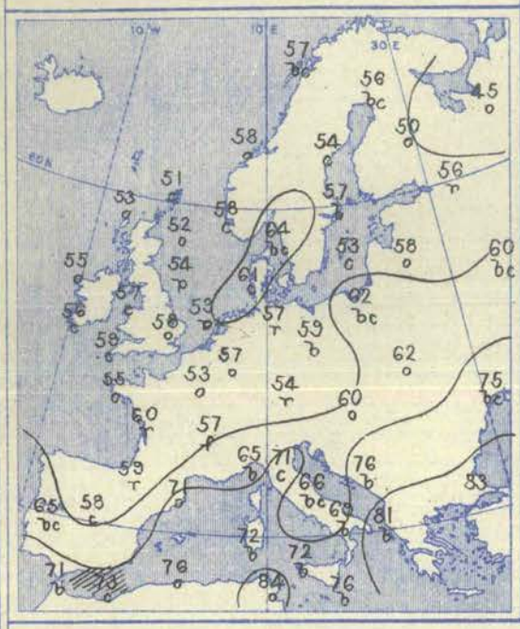
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 9th August.

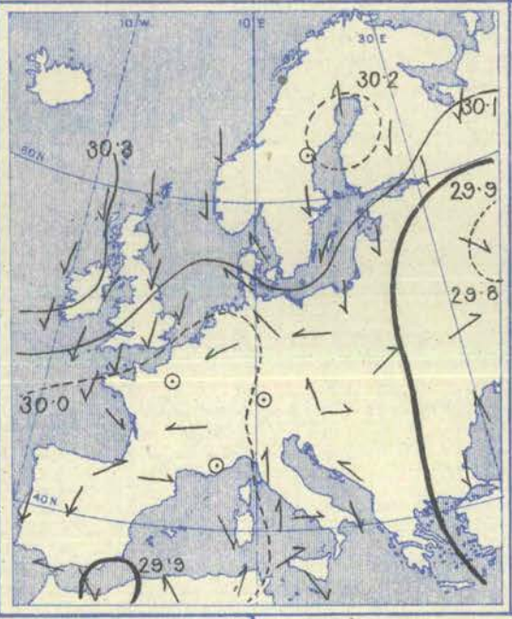
Temperature and Weather.

8 a.m.

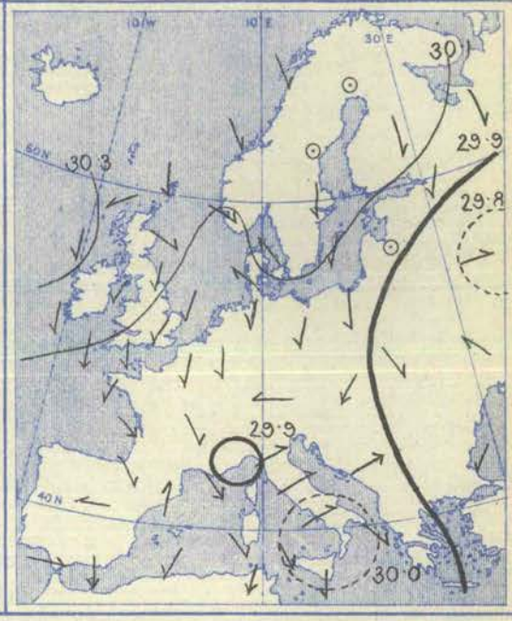


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over south-eastern Europe, very cloudy and unsettled elsewhere, with showers in several parts of our Islands and at St. Petersburg. Further and considerable falls of rain over the south-east of England, France, and Germany, and slight showers over north Britain; very heavy rain (1·4 ins.) at Turin, and thunderstorms in a few widely-separated localities in Europe.

Temperature again fallen. Highest in morning 81° to 83° over the extreme south-east of Europe, 84° at La Calle, 75° to 76° on the northern shores of the Black Sea, and exceeding 70° over the greater part of the Mediterranean. Lowest, 45° at Archangel, 50° at Kuopio, 51° at Sumburgh Head, 52° at Aberdeen, 54° at Malin Head, Shields, and Oxford. Not touching 70° at any of our own stations later, but rising to 72° at Berlin and Rochefort, 76° at Perpignan, 77° at Nice, 82° at Rome, 97° at Brindisi, and 102° at Biskra.

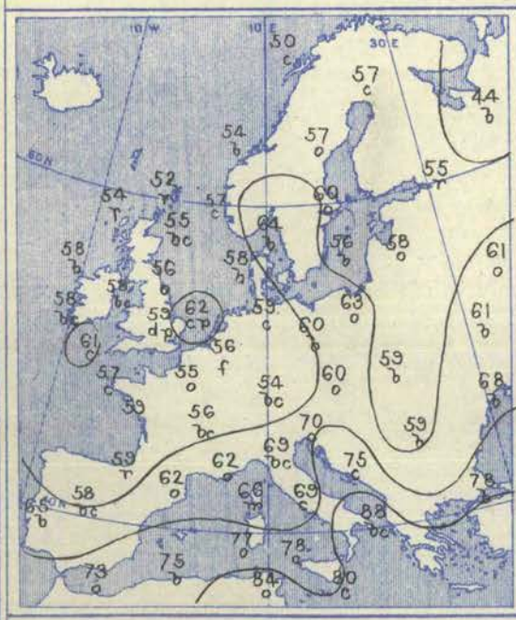
Wind extremely light and variable over the southern and inland parts of Continental Europe; Northerly moderate to fresh over the British Islands; South-Easterly on the eastern shores of the North Sea. Shifting to Southerly (temporarily) over the Hebrides later, but no decided change elsewhere.

Barometer highest, 30·3 ins. and more over the extreme western and north-western parts of our Islands and the adjacent parts of the Atlantic, and exceeding 30·2 ins. over the northern parts of Sweden and the Gulf of Bothnia. Lowest, 29·8 ins. and less in a depression over central Russia, and below 30·0 ins. over the northern and eastern parts of France, the Mediterranean, and the southern parts of Spain.

Monday, 10th August.

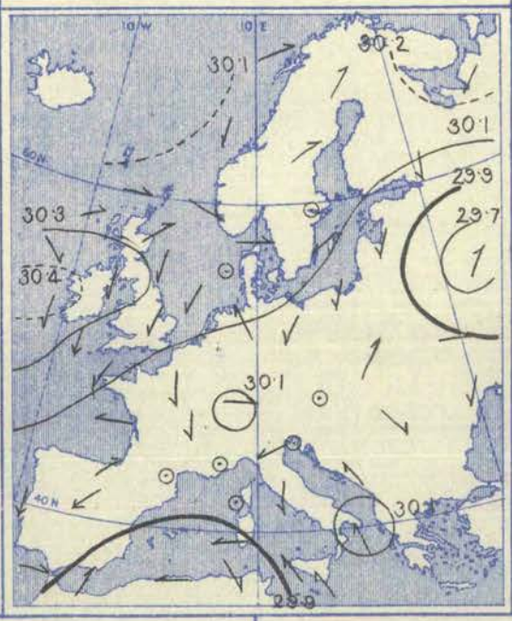
Temperature and Weather.

8 a.m.

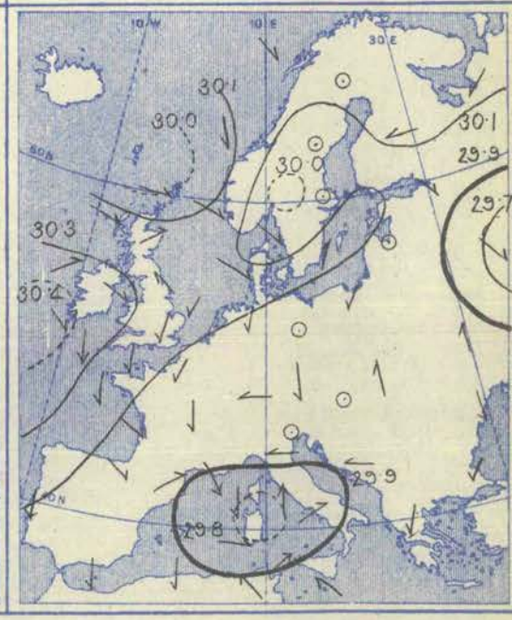


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-western Europe and in Austria and the south of Russia; temporarily fine at some of the Scandinavian stations also; very variable over the British Islands, with showers in many places. Some rain falling later, except over our western districts, and thunderstorms occurring in the south-west of France.

Temperature highest, 88° at Brindisi, 84° at Tunis, 80° at Malta, and above 70° over Algeria; 69° at Nicolaieff, and above 60° over central Russia. Lowest, 44° at Archangel, 50° at Bodö, 52° at Sumburgh Head, 55° at Nairn, Malin Head, York, and Paris; 54° at Munich. Rising later to between 60° and 70° over the United Kingdom, to 72° at Berlin, and 75° at Nice. Succeeding night rather cold over England.

Wind light to moderate from the Northward over the greater part of England and Ireland, and from North-East over the north of France, the Netherlands, and the Baltic; fresh North-Easterly over Spain; very variable and light elsewhere, but backing towards West at the Scotch stations. Very little change later.

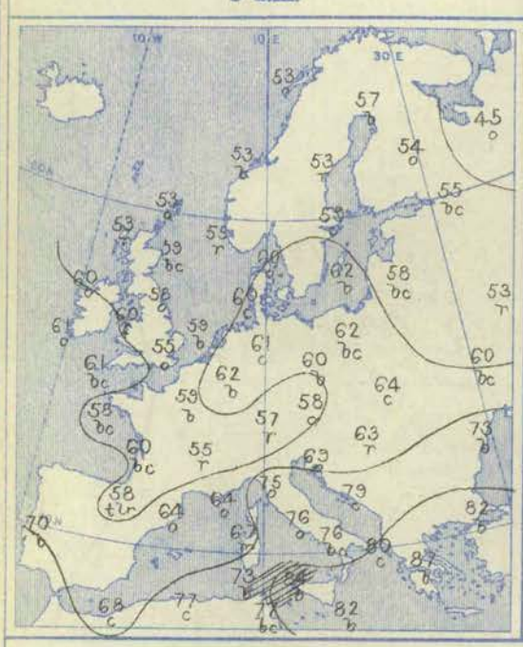
Barometer highest, 30·2 ins. to 30·4 ins. over the northern and western parts of the United Kingdom, and exceeding 30·2 ins. over the White Sea. Lowest, below 29·7 ins. over central Russia, and below 29·9 ins. on the shores of Algeria and Tunis. Falling at the Scotch stations during the day, rising over Ireland, England, and France.

Wyman & Sons, Lt.d, Lith, 63, Carter Lane

Tuesday, 11th August.

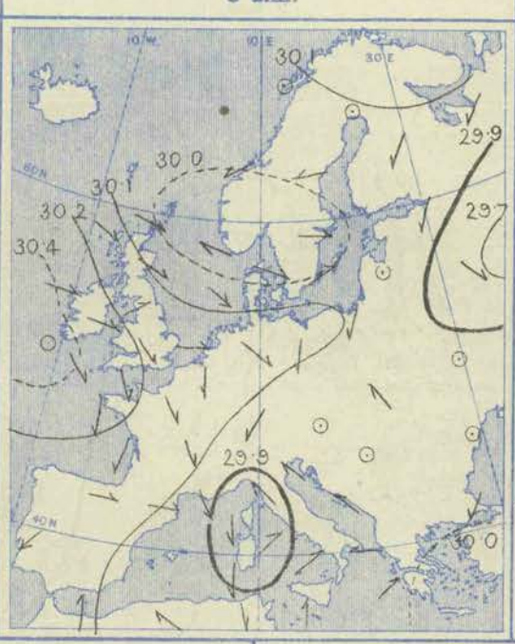
Temperature and Weather.

8 a.m.

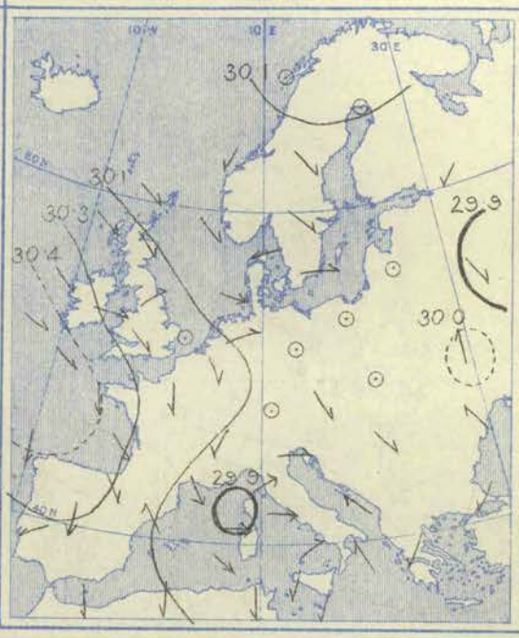


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning varying greatly in different localities; fine over Greece, Turkey, and south of Russia, also over north Germany, France, and at some of our own stations. Cloudy or overcast and unsettled elsewhere, with rain at our north-western stations, and in many parts of Austria. Rain falling later, except in the south and south-west of England, and the north of France; but amounts small in most places.

Temperature changing somewhat fitfully. Morning readings highest, 87° at Patras, 84° at Palermo, and exceeding 80° over south-eastern Europe generally; 69° at Florence and Trieste, 66° at Odessa, 64° at Lemberg, and also at Roche's Point; 61° at Leith, 60° at Riga. Lowest, 45° at Archangel, 53° at Bodö, Christiansund, Stornoway, and at Moscow; 54° at Belfort. Rising to between 70° and 76° in many parts of the British Islands later, to 72° at Berlin, and to 75° and 76° at many of the French stations.

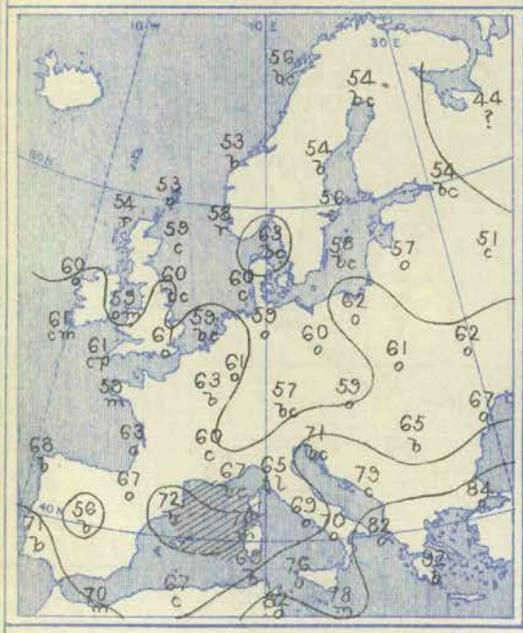
Wind moderate to fresh from between north-west and west over the northern and eastern parts of the British Islands and the North Sea, Northerly over the Bay of Biscay, North-Easterly at Lisbon. Light and extremely variable over northern, central, and southern Europe. Not much change later.

Barometer highest, (1) 30·2 ins. to 30·4 ins. and more over Ireland, England, and the adjacent parts of the Atlantic; (2) 30·1 ins. and more over Lapland; (3) 30·0 ins. and more over the Black Sea and south-eastern Europe. Lowest, (1) about 29·7 ins. over central Russia; (2) below 29·9 ins. over Sardinia, Corsica, and the north-west of Italy; (3) below 30·0 ins. over the southern half of Scandinavia. Rising slightly over the northern parts of our Islands later; falling over the south-east of England.

Wednesday, 12th August.

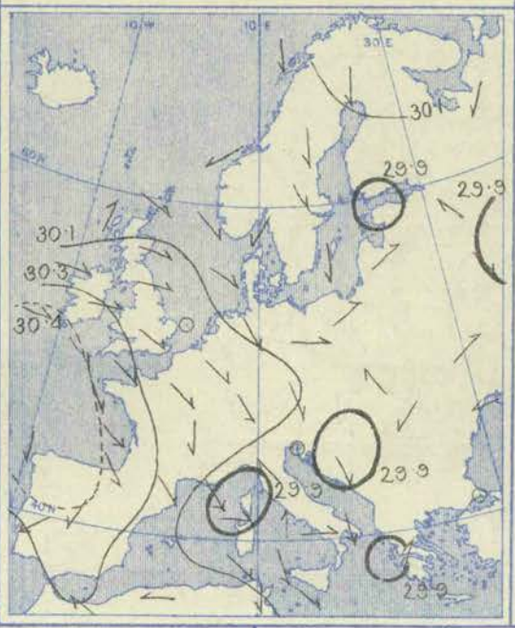
Temperature and Weather.

8 a.m.

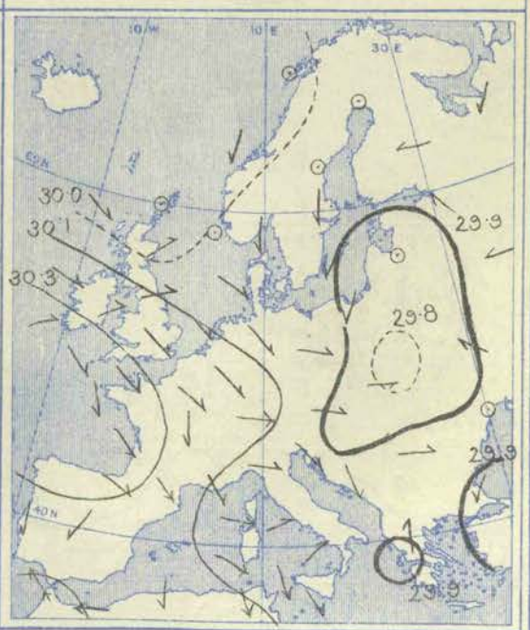


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the northern parts of Russia and Scandinavia on the one hand, and over the Iberian Peninsula and the southern shores of the Mediterranean on the other; fair over central France, cloudy or overcast elsewhere, with rain in several parts of the British Islands and central Europe; thunder and lightning at Leghorn. Some rain later over all the northern and north-western parts of the United Kingdom; local showers over France and Scandinavia.

Temperature rising over western Europe. Morning readings highest, 92° at Athens, 87° at Patras, 82° at Brindisi and Sfax; above 70° on the southern shores of the Mediterranean generally, lower elsewhere. Lowest, (1) 44° at Archangel, 51° at Uleaborg and Moscow, 53° at Christiansund and Sumburgh Head, 54° at Stornaway; (2) 52° at Belfort, 57° at Limoges and Munich. Rising later to between 70° and 76° over England, to 81° at Nice and Perpignan, and 86° at Lisbon.

Wind moderate to light and anticyclonic over the British Islands, France, and Spain; moderate Northerly over Scandinavia, but South-Westerly over the Baltic Provinces, and Easterly over the Gulf of Finland. A well-marked cyclonic circulation of moderate winds reported over the northern parts of the Mediterranean. Freshening a little from the Westward in the north-west of our Islands later.

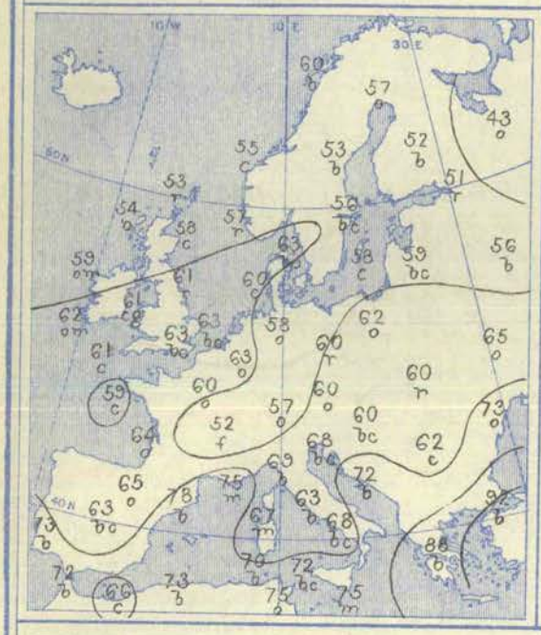
Barometer highest, 30·4 ins. and more to 30·1 ins. in the eastern half of an anticyclone spreading in from the Atlantic over Ireland, England, France, and Spain, and exceeding 30·1 ins. over Lapland. Lowest, below 29·9 ins. in a depression lying off the south-east coast of France, and in another shallow system over central Russia. Barometer falling somewhat decidedly in the north of our Islands later as a new shallow disturbance advanced towards Norway from the Atlantic.

Wyman & Sons, Lt., Lith. 63 Carter Lane.

Thursday, 13th August.

Temperature and Weather.

8 a.m.

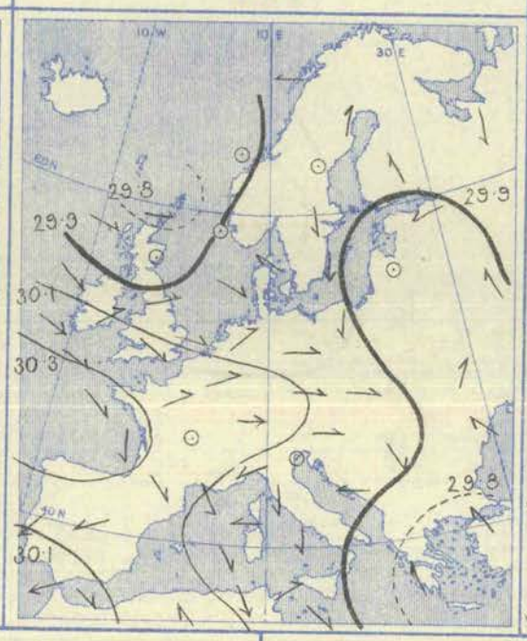


Weather in morning not at all settled except over the extreme south-western, southern, and south-eastern countries, but fine temporarily over Sweden; cloudy and overcast elsewhere, with rain at times in many localities. Rain falling in showers during the ensuing twenty-four hours, except over the south-west of our Islands and the whole of France—the fall very considerable at Cuxhaven and Hamburg; slight over our Islands.

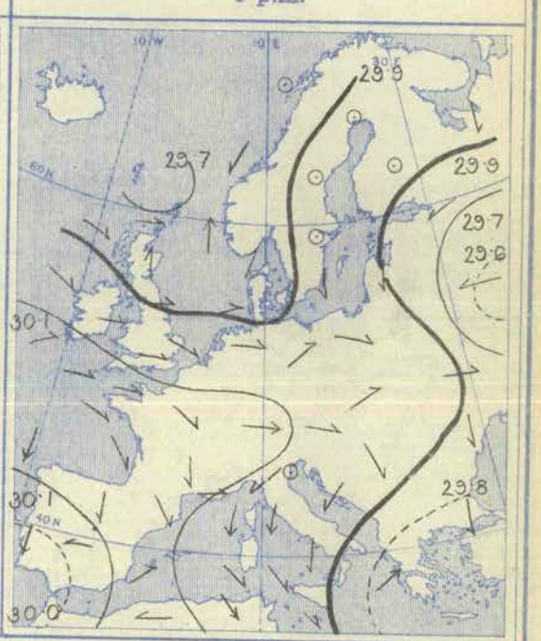
Temperature risen somewhat over the British Islands, but not changed much elsewhere. Morning readings highest, 92° at Constantinople and 88° at Athens; 78° to 70° at many Mediterranean stations and over the south of Russia; 65° to 60° over many other parts of Europe and the British Islands; 60° at Bodö. Lowest, 43° at Archangel, 51° at St. Petersburg, 53° at Sumburgh Head, 54° at Stornoway. Rising later to between 70° and 76° over the greater part of the United Kingdom, to 80° and more over the south of France, and to nearly 90° at the Italian stations. Maxima recorded as high as 93° at Lisbon and 97° at Biskra.

Barometer and Wind.

8 a.m.



6 p.m.



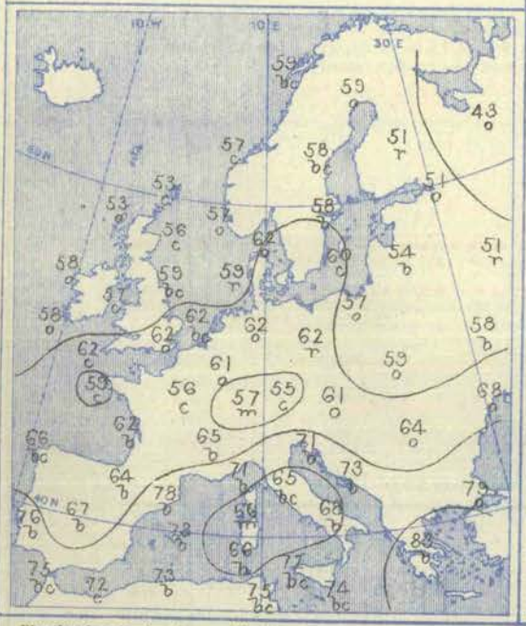
Wind was moderate to light; (1) Westerly to North-Westerly over the United Kingdom and the Channel, North-Westerly to Northerly in the west of France, North-Easterly over Spain; (2) Easterly to North-Easterly over Finland, Northerly to North-Westerly over north Germany, Westerly over central Europe, South-Easterly over central Russia. Very little change in direction later, but freshening all over the British Islands.

Barometer highest, 30·3 ins. to 30·1 ins. over the Bay of Biscay, France, and the southern and south-western parts of our Islands, and exceeding 30·0 ins. over Sweden. Lowest, below 29·8 ins. over the Baltic provinces and neighbouring parts of Russia, and also over the extreme south-east of Europe and Asia Minor. Very little change over our Islands later, rising decidedly over south-eastern Europe.

Friday, 14th August.

Temperature and Weather.

8 a.m.

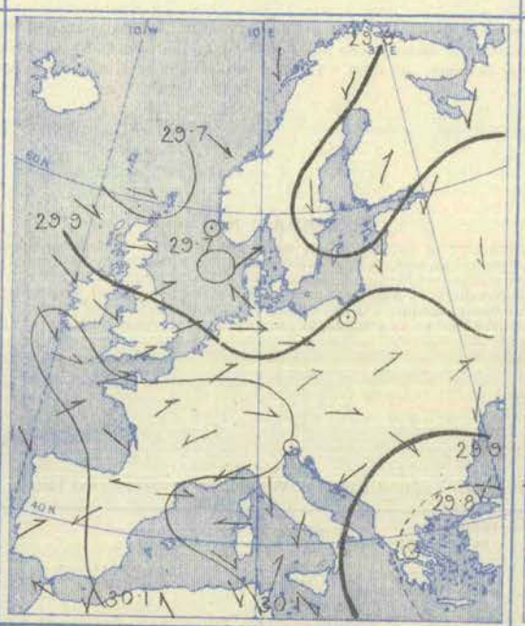


Weather in morning fine and bright over south-western and southern Europe, as well as over the south of Russia, Finland, Sweden, and Lapland; cloudy or overcast elsewhere, with showers in many places, especially in the north-eastern parts of Great Britain. Rain falling later, very heavily over the Skager Rack, and in considerable quantities along our north-east and east coasts; passing showers over the British Islands generally, the Netherlands, and Germany; thunderstorms reported at our north-eastern and eastern stations.

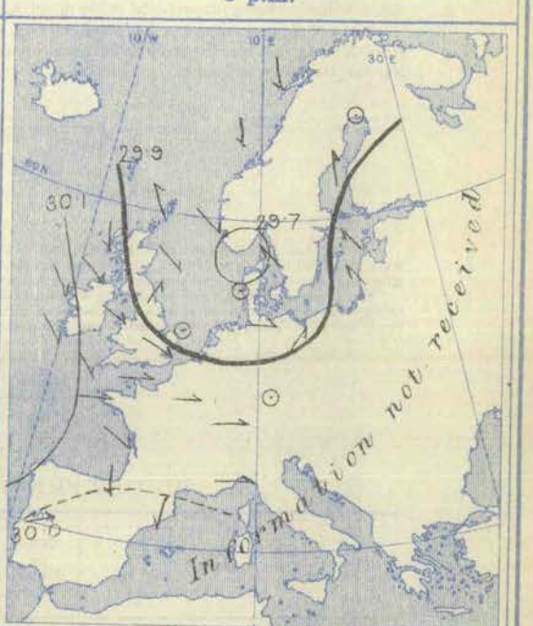
Temperature fallen considerably over the United Kingdom and some parts of France, and still more decidedly over the Black Sea and Greece. Morning readings highest, 83° at Athens, 79° at Constantinople, 78° at Barcelona, 76° at Lisbon; above 60° at many stations over the southern half of Europe, and touching 60° at Roche's Point and Wisby. Lowest, (1) 43° at Archangel, 51° at St. Petersburg and Moscow; (2) 53° in the north of Scotland, 55° at Malin Head, 56° at Parsonstown. Rising later to between 70° and 72° over the south of our Islands and at Berlin, to 76° at Paris, 81° at Nice, and 88° at Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



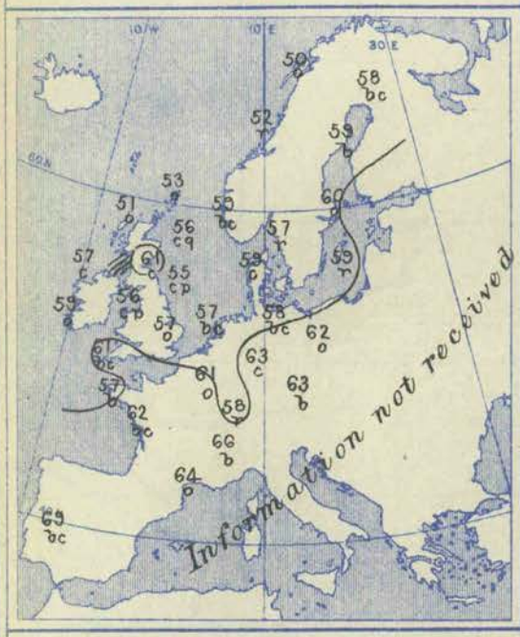
Wind extremely variable over south-western and southern Europe, as well as over Scandinavia, Finland, and the greater part of Russia; North-Westerly to South-Westerly and moderate over the United Kingdom; South-Westerly over the north of France and the Netherlands; South-Easterly at Fanö. Becoming more Northerly over the United Kingdom later, and freshening in the west and north.

Barometer highest, 30·1 ins. and more to 30·0 ins. in an anticyclone of very irregular form, covering the whole of western, southern, and a great deal of central Europe, and about 30·0 ins. over central Finland. Lowest, 29·7 ins. and less to 29·8 ins. in a very complex low pressure system covering Scotland, the Shetland Islands, and the eastern districts of the North Sea, and below 29·8 ins. over the Grecian Archipelago and Asia Minor. Beginning to rise in our Islands later, and the depression in the north and east becoming less complex.

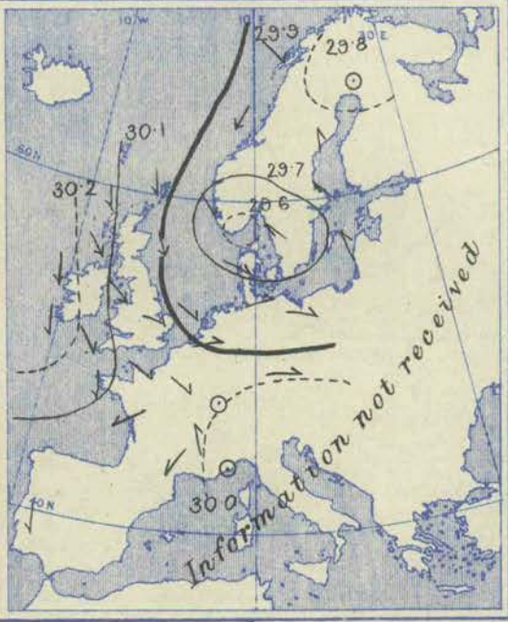
Wyman & Sons, Lt.Lith. 63, Carter Lane.

Saturday, 15th August.

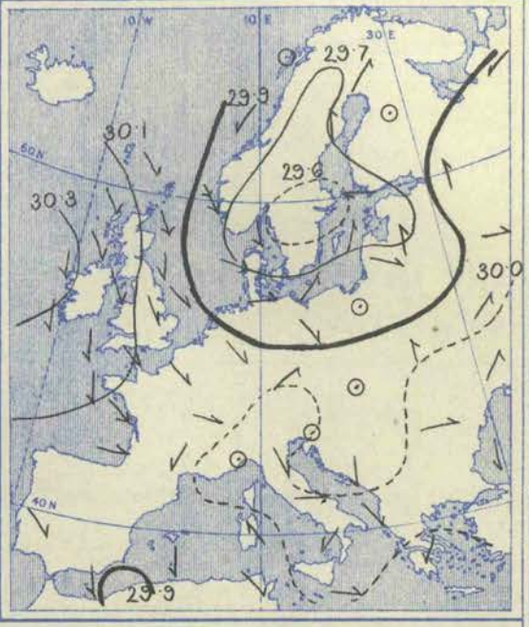
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterannean, France, the Netherlands, and several of the southern parts of our Islands, as well as over the north of Sweden; cloudy or overcast elsewhere. Very rainy and unsettled over Denmark and the southern parts of Scandinavia; showery in the north and east of the British Islands. Considerable rain later over Sweden, Denmark, the Netherlands, and North Germany. Showers over Scotland and the south-east of England; a heavy local fall at Lyons.

Temperature highest, 69° at Lisbon, 62° to 66° in the south and south-west of France, 64° at Prawle Point, and 60° (locally) at Stockholm. Lowest, 50° at Bodö, 51° at Stornaway, 53° at Sumburgh Head, 56° at Parsonstown and York. Not touching 70° over our Islands during the day, except at Hurst Castle, but rising to 73° at Paris, 75° at Nice, 81° at Lisbon, and 83° at Lyons.

Wind Northerly to Westerly moderate to strong over the United Kingdom; Easterly moderate over the south of Scandinavia, but Westerly moderate over Germany; Northerly to North-Easterly over the Bay of Biscay; Northerly at Lisbon; becoming more Northerly, and decreasing somewhat in force, over the United Kingdom later, remaining light and North-Westerly over central Europe.

Barometer highest, 30·2 ins. and more over the west of Ireland and neighbouring parts of the Atlantic, and exceeding 30·0 ins. over all the western parts, both of our Islands and France. Lowest, below 29·6 ins. in the central parts of a depression lying over the Skager Rock, and below 29·8 ins. in a larger, but shallower, system over the northern parts of the Gulf of Bothnia and Finland, rising throughout our Islands later. Scandinavian depression moving eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h ⌝ hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week the western part of an anticyclone extended from the Atlantic over our western coasts, while several shallow depressions were observed both over central Russia and the Mediterranean, and, at times, off our northern coasts also. Towards the close of the period the high pressure area moved more to the southward, and depressions travelled eastwards over Scotland and the North Sea to Denmark and Germany.

With this distribution of pressure a well-marked Northerly to North-Westerly and Westerly current of wind prevailed over nearly all parts of Europe, the weather being somewhat changeable, with rain and thunder in many regions. In the Spanish Peninsula and on the shores of the Mediterranean the winds were more variable. Temperature did not differ materially from the mean over Europe as a whole, but was occasionally very high over southern Europe and the Grecian Archipelago.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	28·4	- 5·4	27	- 5	SOUTHPORT	25·0	?	24	?
OSWALDKIRK (Yorkshire)	25·9	- 5·1	25	- 4	MANCHESTER (Oldham Road)	14·8*	?	14*	?
WORKSOP	20·2	-12·1	20	- 11	COLWYN BAY	32·9	?	32	?
THURCASTON (Leicestershire)	27·2	- 9·0	26	- 9	TENBY	*		*	
MARGATE	31·8	-10·2	31	- 10	NEWQUAY	46·0	+ 0·7	45	0
WESTBOURNE (Sussex)	39·9*	- 6·1	39*	- 6	TORQUAY	52·9*	+ 7·1	52*	+ 7
BRIGHTON	41·7	- 6·3	41	- 7	ARLEY COTTAGE (County Cavan)	32·6	+ 2·7	31	+ 2
EASTBOURNE	33·2	-11·8	33	- 11	GUERNSEY	60·8*	+ 7·2	60*	+ 7

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 34.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 22ND, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 200.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	65	37	60·0	47·3	53·3	2 below	79	− 6	0	0	1571	+239	305	−318
	1. SCOTLAND, EAST	? 70	36	63·5	47·0	54·7	1 below	89	−11	0	0	1867	+230	408	−241
	2. ENGLAND, N.E.	68	40	63·3	49·4	55·9	2 below	97	−13	0	0	2003	+275	327	−222
	3. ENGLAND, EAST	72	41	66·7	49·3	57·5	2 below	109	−12	0	0	2246	+224	388	−229
	4. MIDLAND COUNTIES	73	40	66·1	48·4	56·7	2 below	103	−15	0	0	2291	+263	372	−247
	5. ENGLAND, SOUTH	75	42	67·4	51·6	59·0	2 below	119	−12	0	0	2483	+301	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	41	62·5	49·5	55·6	1 below	95	− 6	0	0	1983	+268	234	−228
	7. ENGLAND, N.W.	69	45	63·4	52·2	57·5	1 below	109	− 4	0	0	2211	+361	201	−258
	8. ENGLAND, S.W.	73	38	65·9	50·6	57·8	2 below	111	− 7	0	0	2450	+396	155	−206
	9. IRELAND, NORTH	69	45	61·4	50·9	55·8	1 below	97	− 8	0	0	2111	+290	162	−233
	10. IRELAND, SOUTH	72	43	63·7	52·0	57·5	1 below	103	− 5	0	0	2446	+386	89	−210
	—CHANNEL ISLANDS	71	53	65·7	56·1	60·6	1 below	130	− 3	0	0	2797	+501	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 200.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	3 less	156	+ 3	32·6	+ 2·3	20	0	20	0	760	− 62	24	− 2
	1. SCOTLAND, EAST	3	2	5 less	123	− 3	14·3	− 5·4	33	+ 1	32	+ 1	993	+ 26	31	+ 1
	2. ENGLAND, N.E.	4	3	3 less	103	−14	10·9	− 4·9	28	− 3	28	− 3	971*	+ 12	31	+ 1
	3 ENGLAND, EAST	4	6	1 more	104	−10	11·7	− 4·0	37	− 4	37	− 4	1162	+ 26	37	+ 1
	4. MIDLAND COUNTIES	4	5	1 less	97	−15	11·1	− 6·0	32	− 4	32	− 4	1050	+ 34	34	+ 1
	5. ENGLAND, SOUTH	3	4	2 less	89	−18	10·1	− 6·7	47	+ 3	47	+ 3	1223	+ 37	39	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	7	3 less	131	− 1	25·6	− 3·3	33	0	33	0	1054	+ 31	33	+ 1
	7. ENGLAND, N.W.	5	7	1 less	115	− 6	17·6	− 2·5	33	+ 3	33	+ 4	1020	+ 79	35	+ 3
	8. ENGLAND, S.W.	4	4	4 less	95	−27	13·0	− 9·8	41	− 2	41	− 2	1341	+107	43	+ 3
	9. IRELAND, NORTH	5	9	0 (average)	135	− 8	22·6	0·0	19	− 9	19	− 9	916	− 27	29	− 1
	10. IRELAND, SOUTH	6	8	0 (average)	112	−18	18·4	− 5·6	18	−14	18	−15	1070	+ 6	34	0
	—CHANNEL ISLANDS	5	4	2 less	105	−23	10·5	− 8·2	48	− 1	48	− 1	1503	+ 90	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was somewhat dull, rainy, and unsettled in all the western and north-western districts, and these conditions extended gradually to almost all parts of the Kingdom as the week progressed. The rain was not generally heavy, but rather large amounts were recorded at some of the north-western stations.

Temperature was below the mean in all districts, the deficit varying from 1° to 2°. The highest of the maxima were registered on rather irregular dates, and ranged from 75° in England S., to 68° in England N.E., and to 65° in Scotland N. The lowest of the minima, which occurred, as a rule, on the 17th, ranged from 36° in Scotland E., 37° in Scotland N., and 38° in England S.W., to 45° in England N.W. and Ireland N., and to 53° in the Channel Islands.

Rainfall was a little more than the mean in England E., and just equal to it in both the districts of Ireland; elsewhere there was again a deficit.

Bright Sunshine was deficient in nearly all districts, but slightly exceeded the mean value in Scotland E. and England S. and N.W. The percentage of the possible duration ranged from 48 in the Channel Islands, 47 in England S., and 41 in England S.W., to 20 in Scotland N., and 18 to 19 in the Irish districts.

Barometer and Wind.—In the course of this week barometrical pressure over our Islands became more and more unsteady. At first an anticyclone covered the western and southern districts, while depressions were confined to our north-western and northern coasts. By Tuesday, however, the anticyclone had moved southwards to France, while secondary disturbances passed over England. On Wednesday the distribution over our Islands was very complex, four separate minima being found. By Thursday this system, in the form of a band of low pressure, was moving slowly eastwards over the North Sea, while the anticyclone had extended north-westwards to Ireland. On Friday another depression passed westwards off the north of Scotland, and more secondary systems appeared over England. By the end of the week these had travelled away, and the barometer had risen considerably over Ireland, but was falling again in the extreme north-west. With these changes the wind varied much, both in direction and force; as a whole, however, it was moderate from the South-Westward or Westward, veering occasionally to North-West or North. On Monday a strong Southerly wind was experienced in the west and north-west, reaching the force of a gale at Belmullet.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 199 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	45	57·0	47·6	52·0	− 0·7	70	0	4	0·45	−0·33	*	*	*	*
	Stornoway	62	47	60·0	48·6	54·0	+ 0·1	84	0	4	1·69	+0·84	28·8	+ 2·4	28	+ 3
	Wick	63	37	60·4	46·1	52·8	− 1·7	76	0	5	0·22	−0·40	*	*	*	*
	Glencarron ℌ	62	42	58·7	46·2	52·1	− 2·4	71	0	5	0·93	−0·60	*	*	*	*
	Fort Augustus ℌ	65	41	62·9	45·9	53·9	− 2·6	83	0	4	0·38	−0·28	10·4	− 6·6	10	− 6
	Fort William ℌ	63	45	61·2	49·6	55·1	− 1·7	92	0	5	0.77	−0·66	21·0	+ 1·4	21	+ 2
1. SCOTLAND, E.	Nairn	66	36	63·0	45·4	53·7	− 2·8	82	0	4	0·28	−0·33	*	*	*	*
	Aberdeen	66	40	62·6	47·3	54·5	− 1·6	88	0	4	0·15	−0·55	32·9	− 1·1	32	− 1
	Braemar ℌ	63	37	59·5	45·0	51·8	− 1·3	69	0	4	0·23	−0·65	33·0†	+ 7·3†	32†	+ 7†
	Ochtertyre ℌ	69	41	65·4	47·3	55·8	− 0·9	97	0	2	0·15	−0·71	*	*	*	*
	Leith	? 70	45	66·9	49·6	57·7	− 0·3	110	0	2	0·15	−0·45	*	*	*	*
	Marchmont ℌ	65	42	63·3	47·4	54·9	− 0·8	90	0	3	0·30	−0·48	29·5	− 4·7	29	− 4
2. ENGLAND, N.E.	Alnwick Castle	63	40	61·6	48·0	54·4	− 2·0	87	0	6	0·36	−0·32	*	*	*	*
	Durham	68	41	64·5	48·1	55·8	− 1·8	97	0	5	0·76	+0·15	24·3	− 8·2	24	− 8
	Shields	66	44	62·0	49·1	55·2	− 2·3	92	0	3	0·22	−0·40	*	*	*	*
	Scarborough ℳ	64	47	62·0	50·1	55·7	− 2·5	96	0	3	0·35	−0·23	*	*	*	*
	York	68	45	66·3	47·9	56·6	− 2·0	102	0	1	0·07	−0·51	29·4	− 2·6	29	− 3
	Spurn Head	65	51	63·1	53·1	57·8	− 1·4	111	0	4	0·25	−0·16	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	71	41	67·7	47·4	56·9	− 2·6	104	0	4	0·40	−0·20	36·3	− 2·4	36	− 3
	Yarmouth	65	47	63·6	52·1	57·5	− 2·4	109	0	3	0·37	−0·15	*	*	*	*
	Geldeston	69	43	66·5	48·4	56·9	− 3·0	104	0	3	0·33	−0·13	34·5	− 7·4	35	− 7
	Cambridge	72	44	69·0	49·9	58·9	− 1·5	118	0	4	1·01	+0·48	37·6	− 2·7	38	− 2
	Rothamsted	69	43	66·7	48·5	57·1	− 2·2	106	0	4	0·87	+0·30	40·4	− 1·1	40	− 2
4. MIDLAND COUNTIES	Harrogate ℳ	67	46	64·9	50·3	57·2	− 0·7	106	0	4	0·13	?	24·2	?	24	?
	Bawtry (Hesley Hall)	70	42	63·7	47·1	56·3	− 2·8	100	0	1	0·04	−0·46	*	*	*	*
	Loughborough	71	40	66·6	47·3	56·4	− 3·9	101	0	3	0·50	−0·05	*	*	*	*
	Stamford (Ketton Hall)	70	43	67·7	48·1	57·3	− 3·1	107	0	3	0·71	+0·21	*	*	*	*
	Cheadle ℳ	68	45	62·6	48·1	54·9	− 2·3	90	0	5	0·42	−0·38	*	*	*	*
	Shirley (near Solihull)	70	42	64·9	47·8	55·8	− 3·8	97	0	6	0·72	?	*	*	*	*
	Churchstoke ℳ	70	41	65·3	46·5	55·3	− 2·1	93	0	6	0·61	+0·01	28·8	− 8·2	29	− 8
	Hereford ℳ	72	45	67·1	49·6	57·8	− 1·8	111	0	5	0·83	+0·29	*	*	*	*
	Cirencester	73	40	67·4	49·3	57·8	− 0·3	111	0	3	0·47	−0·21	41·5	+ 1·7	42	+ 2
	Oxford	73	46	68·0	49·6	58·3	− 2·1	114	0	4	0·48	−0·02	41·2	+ 0·3	41	0
5. ENGLAND, S.	London	73	45	69·7	50·7	59·6	− 2·1	123	0	5	0·59	+0·07	37·5†	+ 0·3†	38†	+ 1†
	North Foreland	68	53	65·0	54·9	59·7	− 0·6	124	0	2	0·30	?	*	*	*	*
	Dungeness	69	45	67·0	51·1	58·6	− 2·9	116	0	1	0·19	−0·29	*	*	*	*
	Hastings (St. Leonards)	69	51	65.9	53·9	59·5	− 1·4	123	0	2	0·33	−0·19	50·6	+ 5·2	51	+ 6
	Southampton	75	48	69·6	50·3	59·4	− 2·1	122	0	5	0·33	−0·27	43·8	− 2·0	44	− 2
	Hurst Castle	71	49	68·1	52·0	59·6	− 2·0	123	0	4	0·14	−0·39	*	*	*	*
	Stowell ℳ	70	42	66·2	48·3	56·7	− 3·7	103	0	3	0·59	−0·06	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	44	62·6	47·7	54·7	− 2·0	89	0	6	1·28	+0·06	*	*	*	*
	Glasgow	64	46	62·4	49·3	55·5	− 1·0	95	0	5	0·30	−0·62	29·5	+ 0·5	29	+ 1
	Ardrossan	65	48	61·9	51·7	56·5	− 1·2	102	0	5	0·41	−0·47	*	*	*	*
	Glenlee ℌ	65	41	63·0	47·8	54·9	− 1·4	90	0	3	0·46	−0·59	*	*	*	*
	Douglas (Isle of Man)	64	47	62·8	50·9	56·5	− 0·2	102	0	4	0·98	+0·16	36·7	− 0·1	36	0
7. ENGLAND, N.W.	Stonyhurst	64	46	62·5	49·9	55·8	− 1·6	97	0	5	0·61	−0·56	34·7	+ 2·7	34	+ 3
	Blackpool ℳ	67	45	64·7	52·2	58·1	− 1·1	113	0	6	0·96	+0·16	37·3	+ 3·8	37	+ 4
	Manchester (Prestwich)	69	46	65·2	49·6	56·9	− 1·3	104	0	6	0·87	+0·05	33·3	?	33	?
	Liverpool Obsy. (Bidston)	68	51	63·3	53·6	58·2	− 1·3	113	0	5	0·49	−0·13	*	*	*	*
	Llandudno ℳ	67	50	63·2	54·1	58·4	− 1·4	115	0	5	0·64	+0·05	*	*	*	*
	Holyhead	64	52	61·4	53·7	57·3	− 1·6	107	0	5	0·65	−0·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	69	38	67·1	44·4	55·1	− 2·8	92	0	5	0·50	−0·55	*	*	*	*
	Pembroke	62	52	60·9	54·0	57·2	− 1·7	106	0	3	0·75	+0·11	32·7	− 9·5	33	− 9
	Clifton	69	49	67·1	52·0	59·1	− 0·6	120	0	3	0·68	−0·07	*	*	*	*
	Arlington (N. Devon)	69	45	65·0	49·7	56·9	− 1·3	104	0	5	0·29	−0·86	*	*	*	*
	Cullompton ℳ	72	40	69·8	47·0	57·7	− 1·9	110	0	3	0·20	−0·43	45·8	+ 5·1	46	+ 5
	Falmouth	65	51	63·1	52·9	57·7	− 2·2	110	0	4	0·34	−0·48	44·6	− 1·2	45	− 1
	Plymouth	69	47	66·5	53·0	59·4	− 1·5	122	0	4	0·20	−0·44	45·5	+ 3·5	46	+ 4
	Prawle Point	73	49	67·7	52·0	59·4	− 0·0	122	0	3	0·17	−0·35	*	*	*	*
9. IRELAND N.	Malin Head	61	52	59·1	53·1	55·9	− 1·6	97	0	6	0·69	?	*	*	*	*
	Londonderry	69	50	63·7	51·3	57·1	− 0·4	106	0	5	0·72	−0·15	*	*	*	*
	Edenfel (Omagh)	61	46	57·6	48·6	52·8	− 3·4	76	0	6	0·89	+0·04	*	*	*	*
	Belmullet	62	52	60·4	54·9	57·5	− 0·4	109	0	6	1·28	+0·27	*	*	*	*
	Markree Castle	65	50	62·0	51·5	56·4	− 0·0	101	0	6	1·27	+0·35	20·9	− 6·9	21	− 7
	Armagh	65	45	62·0	48·4	54·8	− 2·2	90	0	4	0·54	−0·18	21·7	− 4·3	21	− 5
	Donaghadee	66	49	63·1	50·6	56·5	− 0·4	102	0	4	0·67	−0·06	*	*	*	*
	Edgeworthstown	68	46	63·3	48·5	55·5	− 1·1	95	0	6	0·89	+0·04	*	*	*	*
10. IRELAND, S.	Dublin	69	49	64·4	52·0	57·8	− 1·2	111	0	6	0·33	−0·29	23·6	−11·3	24	−11
	Parsonstown	72	49	64·4	? 59·6	? 57·1	? − 0·6	?106	0	6	0·42	−0·36	16·8	−12·2	17	−13
	Kilkenny	72	43	63·7	49·0	55·9	− 2·7	97	0	6	0·46	−0·36	*	*	*	*
	Roche's Point	69	50	65·1	53·3	58·9	− 0·3	118	0	4	0.69	−0·23	*	*	*	*
	Valencia	65	44	62·4	53·3	57·6	− 1·3	109	0	6	1·38	+0·28	12·0	−21·1	12	−22
	Killarney	67	46	64·0	52·3	57·8	− 1·1	111	0	6	1·10	?	*	*	*	*
	Foynes	63	48	61·8	53·2	57·2	− 1·0	106	0	7	1·33	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	55	65·0	56·4	60·4	+ 0·3	129	0	5	0·39	−0·16	37·3	?	38	?
	Jersey	69	53	66·4	55·7	60·7	− 1·8	131	0	5	0·39	−0·13	51·4	− 2·6	52	− 3

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

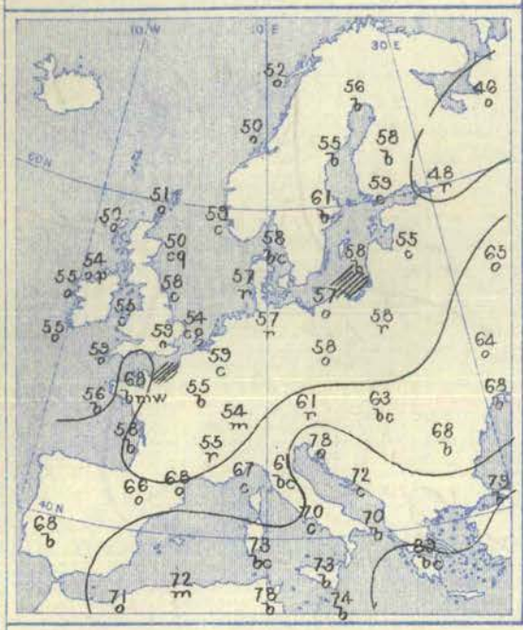
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 16th August.

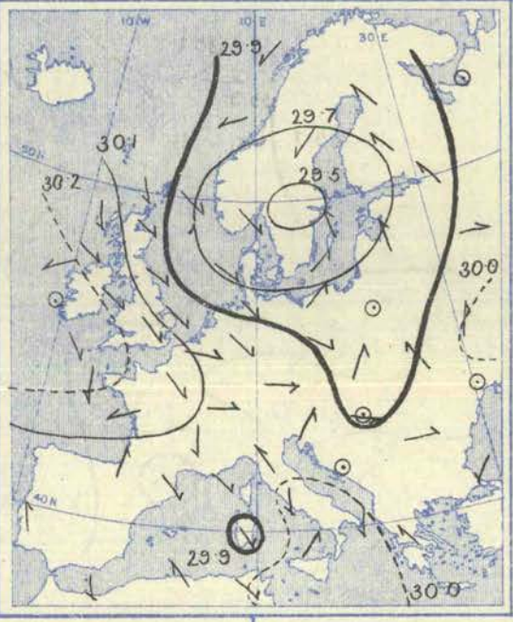
Temperature and Weather.

8 a.m.

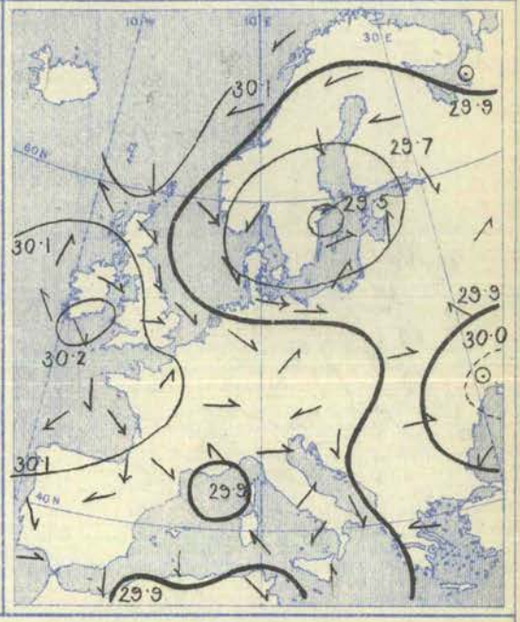


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Spain, France, and the western parts of our Islands, as well as over the Mediterranean and south-eastern Europe on the one hand, and Finland and Sweden on the other. Cloudy or overcast over Great Britain, Norway, and the North Sea; rainy over Denmark and the north-western parts of Germany. Considerable falls of rain later over Scandinavia, the eastern shores of the North Sea, and several parts of Russia, and a heavy local fall at Madrid, but none over the United Kingdom, where weather was very fine.

Temperature in morning highest, 83° at Patras, 81° at Sfax, and exceeding 70° at most of the Mediterranean and Adriatic stations, 68° at Kharkov and at Jersey, 64° at Memel. Lowest, 46° at Archangel, 48° at St. Petersburg, 50° at Christiansund, Stornoway, Nairn, and Aberdeen. Not touching 60° over Scotland all day, but rising to between 62° and 67° over the north of England, to 71° at Cambridge, 73° in London and at Paris, 81° at Perpignan, 86° in the south of Italy and at Algiers, 97° at Tunis, and 106° at Biskra.

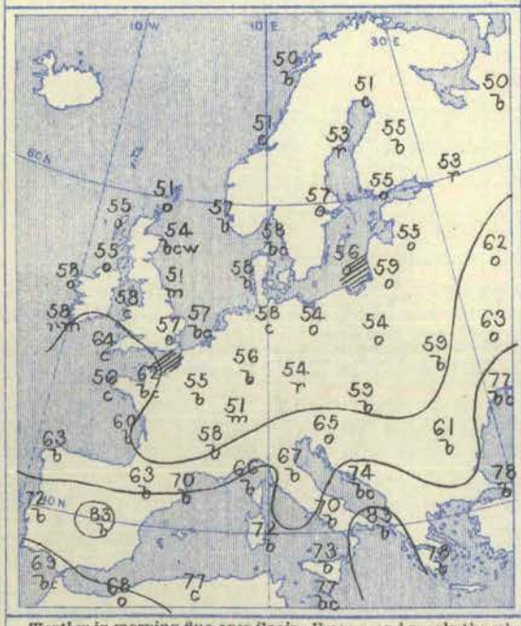
Wind blowing rather freshly in a cyclonic circulation covering the Baltic and northern Europe generally, but North-Westerly (anticyclonic) over the United Kingdom; North-Easterly over the Spanish Peninsula and south-west of France. Shifting to the Southward at our extreme western and north-western stations later.

Barometer highest, 30·2 ins. and more to 30·0 ins. in the eastern part of a large anticyclone spreading in from the Atlantic over the greater part of western Europe, and exceeding 30·0 ins. over the south-east of Russia also. Lowest, below 29·5 ins. in a depression covering northern Europe, and having its central area over Sweden, not far from Stockholm. Depression moving south-eastwards later; barometer rising over Scandinavia, but beginning to fall briskly in the west of our Islands.

Monday, 17th August.

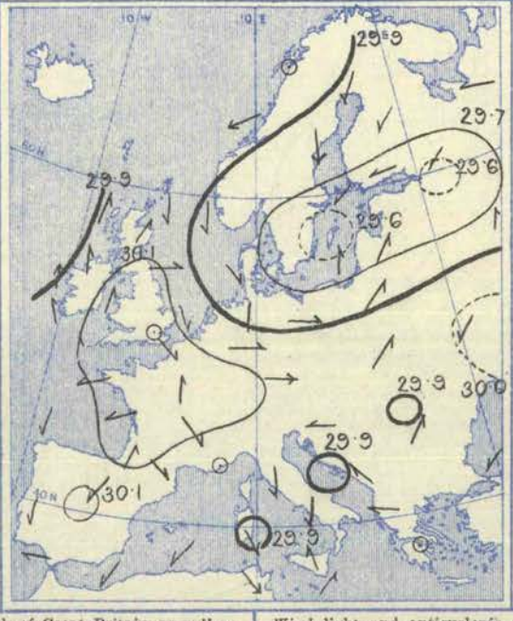
Temperature and Weather.

8 a.m.

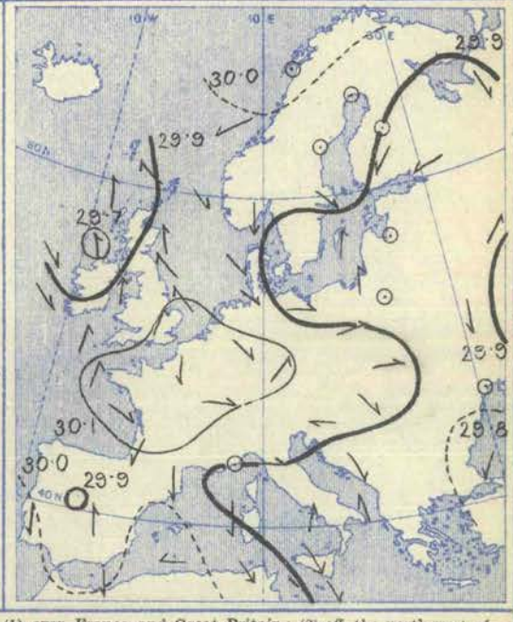


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Spain, France, and nearly the whole of Great Britain, as well as in the west of Norway and extreme north of Russia; fine over south-eastern Europe also. Overcast, rainy, and very unsettled over the Baltic, western Russia, and several parts of Germany; dull and unsettled looking over Ireland and the west of Scotland. Rain falling later in many parts of northern and central Europe, and still more generally over the British Islands—largest amounts reported 0·8 in. at Valencia, 0·4 in. at Belmullet, 0·5 in. at Stornoway, 0·6 in. at Helsingfors, and 0·5 in. at Lemberg.

Temperature changing irregularly over the western, and decreasing steadily over the central countries. Morning readings highest, 83° at Brindisi and at Madrid, and exceeding 70° over most parts of southern, south-western, and south-eastern Europe, 65° at Prawle Point, 63° at Nicolaieff and Kharkov, 62° at Moscow. Lowest, (1) 50° at Archangel and Bodö, 51° at Haparanda and Sumburgh Head; (2) 50° at Loughborough, 51° at Shields; (3) 49° at Limoges, 50° at Le Mans, 51° at Belfort. Rising later to between 70° and 73° in many parts of England, to 73° at Paris, and 83° at Perpignan, 99° at Palermo, 104° at Biskra.

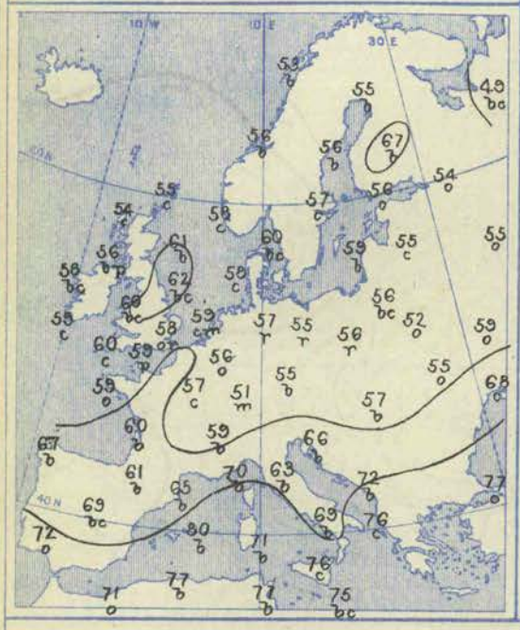
Wind light and anticyclonic (1) over France and Great Britain; (2) off the north-west of Norway; light and very variable over the Mediterranean and south-eastern Europe. Moderate to fresh and cyclonic from South-West in north Germany, and moderate from North-East and North over Sweden and Finland. Southerly on all the western coasts of the British Islands, and freshening considerably at the Irish stations. Becoming strong to a gale from the Southward on our west coasts later, but subsequently shifting to North-West again at Belmullet and Valencia.

Barometer highest, 30·1 ins. and more to 30·0 ins. over nearly the whole of western Europe, and exceeding 30·0 ins. over the south-east of Russia also. Lowest, 29·6 ins. and less to 29·7 ins. in a complex depression over the Baltic and Baltic provinces, and below 29·9 ins. off our own north-west coasts. Falling fast at our extreme western stations later; rising over the Baltic.

Tuesday, 18th August.

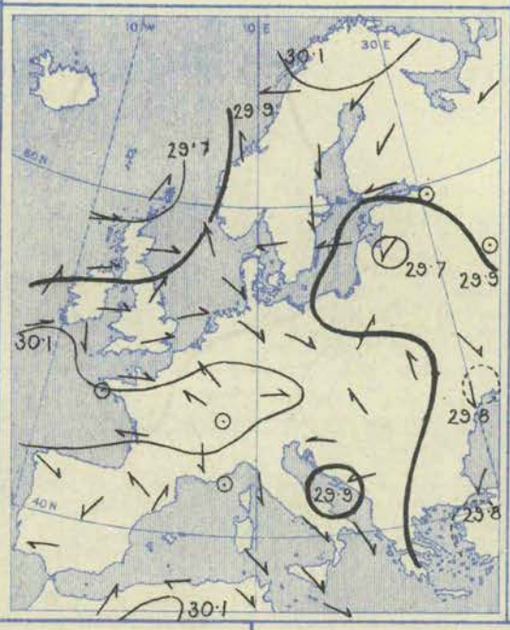
Temperature and Weather.

8 a.m.

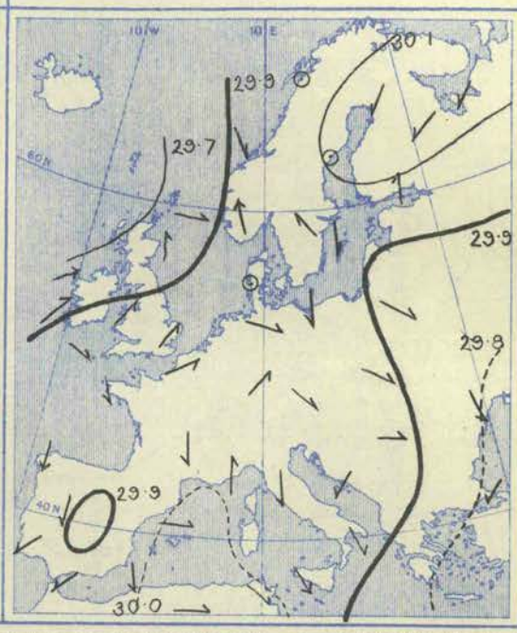


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of Europe, and temporarily fine over Scotland and Ireland; dull and rainy over the southern parts of England, as well as over the Baltic provinces, western Russia, and Hungary. Considerable rain falling later over the British Islands, the Netherlands, and many parts of north Germany, the largest amounts reported being 1·0 in. at Stornoway and Neufahrwasser, 0·6 in. at Pembroke, 0·4 in. at Roche's Point, and 0·2 in. at the Helder and Berlin.

Temperature risen over England, fallen over south-eastern Europe. Morning readings highest, 80° at Palma, and above 70° at most stations in southern Europe, 68° at Trieste, 63° at Jersey, 62° at Kharkov. Lowest, (1) 49° at Archangel, 53° at Bodö, 54° at St. Petersburg, and 52° at Breslau; (2) 51° at Belfort, 52° at Wiesbaden, 53° at Le Mans. Not touching 70° in any part of our Islands during the day, but reaching 68° at Oxford, 70° at Brussels, 74° at Paris, 80° at Belfort, and 82° at Perpignan, 87° at Gap and Rome, 88° at Palermo, and 106° at Biskra (Algeria).

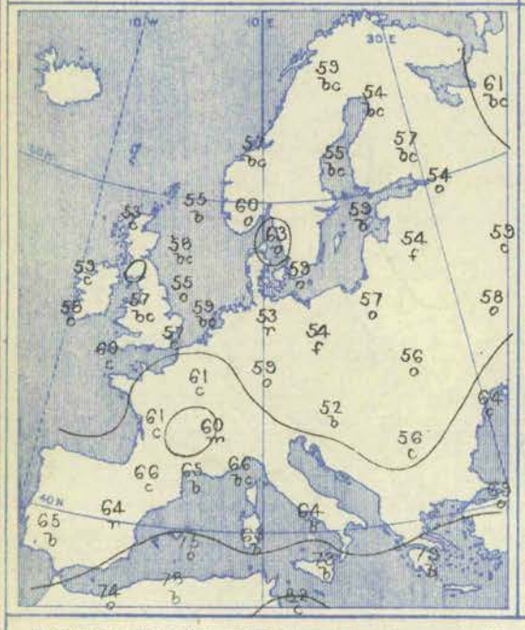
Wind (1) Westerly and South-Westerly over the United Kingdom as a whole (but Northerly at Scilly); South-Easterly in the west of Norway; (2) North-Easterly over Finland and the Baltic; North-Westerly to South-Westerly over Germany and Poland; (3) Northerly to North-Westerly over Italy, Sardinia, and Sicily; Easterly at Lesina and Trieste. Very little change in our Islands later.

Barometer highest, (1) 30·1 ins. and more over the Bay of Biscay, and in a band stretching thence over central France to south Germany; (2) apparently exceeding 30·1 ins. over the northern parts of Lapland. Lowest, 29·7 ins. and less in two depressions—one lying a little to the northward of our Islands, the other near Riga; 29·8 ins. and less in a third system over the south of Russia, and below 29·9 ins. in a fourth lying over the Adriatic and the eastern part of Italy. Falling unsteadily over the British Islands later, and distribution in those regions becoming very complex.

Wednesday, 19th August.

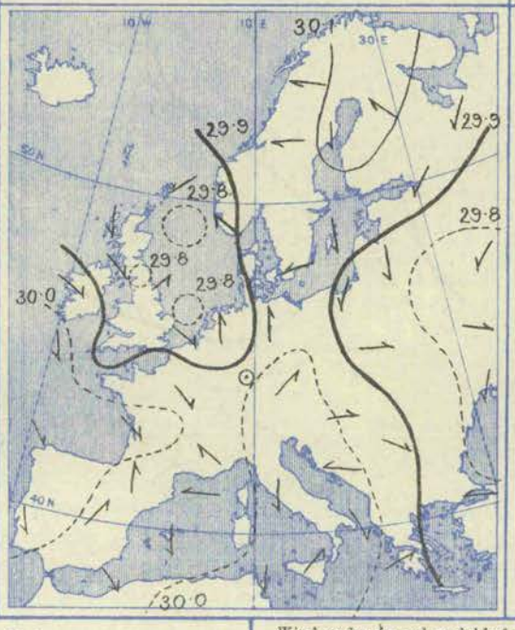
Temperature and Weather.

8 a.m.

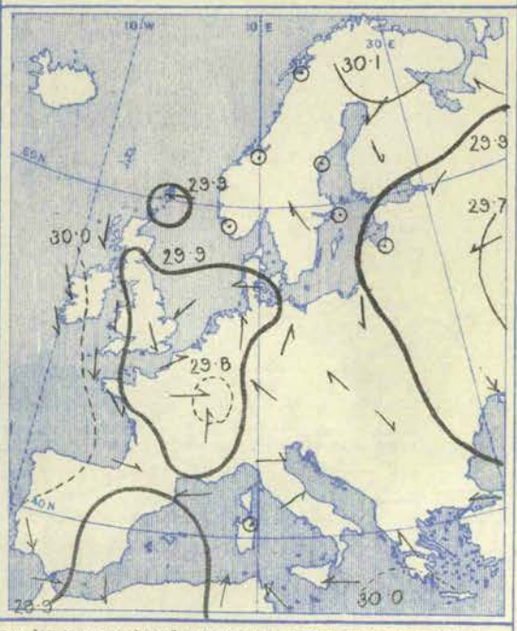


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the eastern parts of the Mediterranean, Italy, Austria, and many parts of Germany, also over the north of Russia, Finland, and Sweden; fine temporarily in most parts of our Islands, but rainy at Prawle Point, Brest, and Cuxhaven, foggy over the Baltic provinces. Rain falling later over the greater part of the United Kingdom, the Peninsula, and the west and south of France—amounts considerable in a few of our localities, but larger at the French stations—as much as 2 ins. at Nancy, 1·5 ins. at Turin, 1·1 ins. at Croisette, and nearly an inch in some parts of Spain.

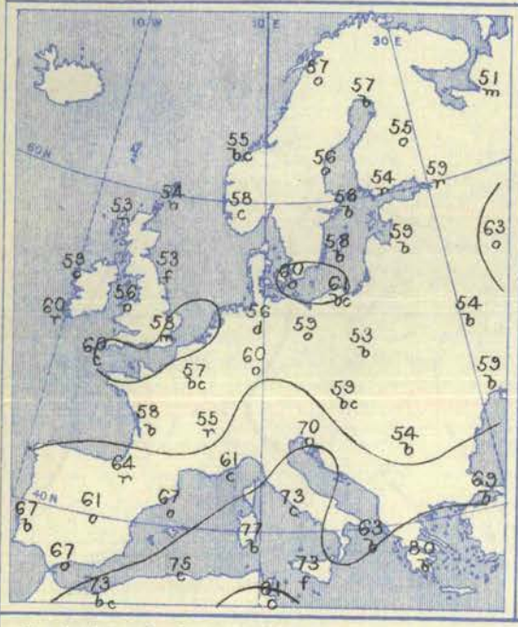
Temperature in morning fallen decidedly over south-eastern Europe and the southern shores of the Mediterranean. Highest, Sfax 82°, Patras 79°, and exceeding 70° on the southern and western shores of the Mediterranean generally; 69° at Constantinople and Kharkov, 62° at Brussels and Hurst Castle, 61° at Archangel. Lowest, (1) 52° at Limoges, (2) 53° at Stornoway, Cuxhaven, and York. Rising later to 70° at Prawl Point, 72° in London and at Wiesbaden, 73° at Paris, 81° at Lyons, 90° at Cagliari, 92° at Madrid, and 97° at Biskra.

Wind moderate and variable from between north and west at our western stations and in the north of France, but Southerly to South-Easterly on the eastern shores of the North Sea; Northerly to North-Easterly over Finland and the Baltic; light and very variable elsewhere. The Northerly wind at our western stations spreading all over the United Kingdom later.

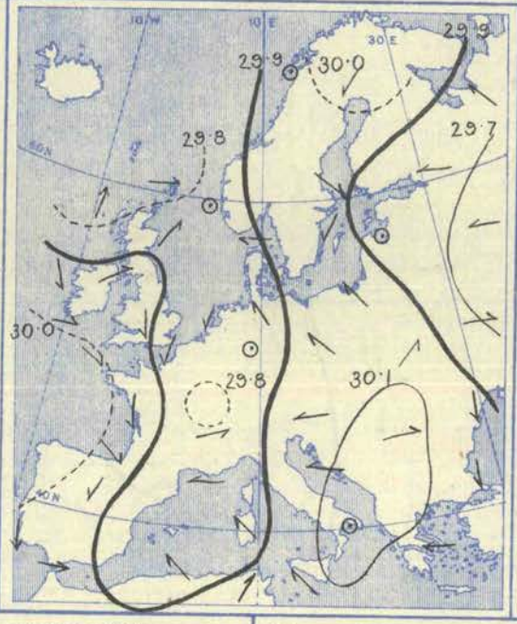
Barometer highest, 30·1 ins. and more to 30·0 ins. in an anticyclone lying over northern Europe, and 30·0 ins. and more in two other similar systems—one lying over Austria, Italy, Sicily, and Tunis, the other the western part of Spain, the Bay of Biscay, and the neighbouring parts of the Atlantic. Lowest, 29·8 ins. and less over the southern parts of Russia and the greater part of the Black Sea, as well as in three small disturbances—one off the coast of Norfolk, another near Leith, and a third a little to the north-eastward of Wick. The latter systems moving eastwards later and undergoing some modifications.

Thursday, 20th August.

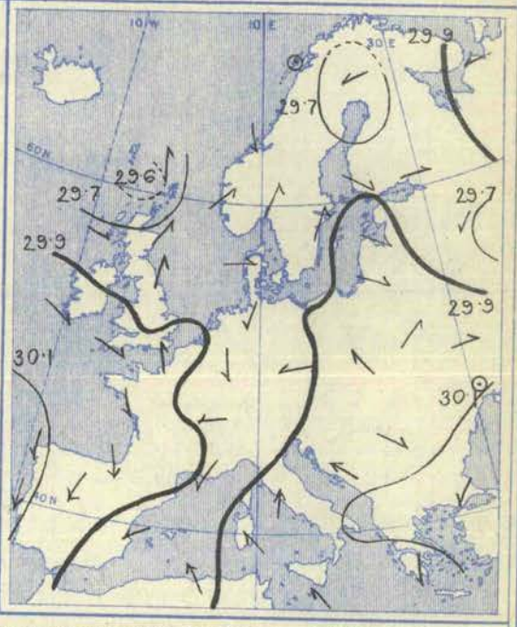
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern and some parts of central Europe; very variable elsewhere; clear and bright in some places, dull and gloomy in others, with rain at many stations—especially in the west of the British Islands. Rain falling later in the west and north-west of the United Kingdom generally, and on many parts of the Continent; fall amounting to 1·4 ins. at Kuopio, 1·2 ins. at Haparanda, 0·8 in. at Moscow, 0·3 in. at Wisby, Belmullet, and Munich, 0·4 in. at Biarritz, 0·5 in. at Toulouse and Algiers.

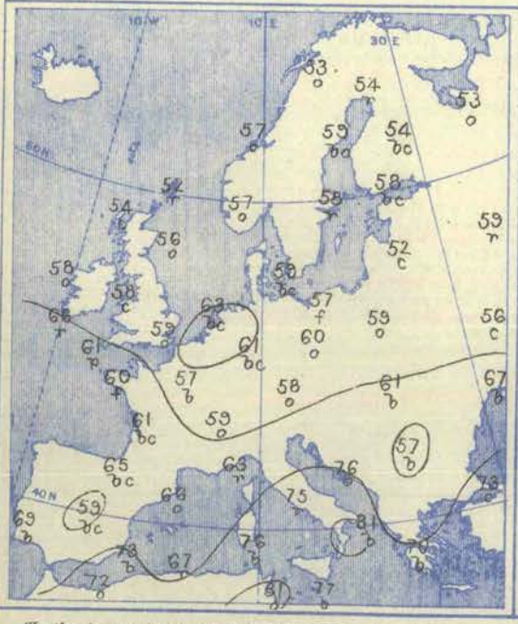
Temperature falling a little over the United Kingdom, rising over north Germany and the Baltic Provinces. Morning readings highest, 80° at Patras, and exceeding 70° at nearly all stations on the southern side of the Mediterranean and the shores of the Adriatic; 63° at Moscow and at Prawle Point. Lowest, (1) 51° at Archangel, 52° at Loughborough and York, 53° at Shields, Malin Head and Stornoway; (2) 53° at Le Mans and Cracow, 55° at Belfort and Vienna. Rising later to between 60° and 65° over the greater part of our Islands, 70° at Cambridge, 72° in London; to 75° at Berlin, Paris and Lisbon, 86 at Brindisi, 98° at Palermo.

Wind very light over Europe generally, fresh over the Bay of Biscay. Chiefly South-Westerly to Westerly over Scotland and Ireland; North-Westerly over the Bay of Biscay; South-Easterly on the eastern shores of the North Sea; South-Easterly to Easterly over the Mediterranean, and extremely variable elsewhere. Shifting to North West later on the western coasts of Scotland and Ireland; very little change reported elsewhere.

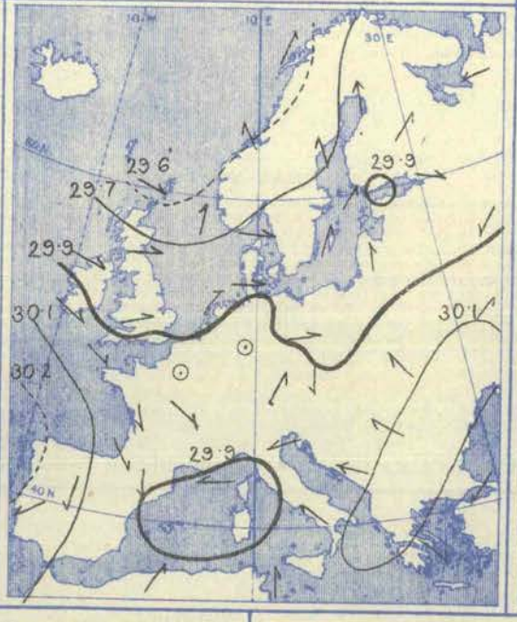
Barometer highest, 30·1 ins. and more to 30·0 ins. over south-eastern and many parts of central Europe, and exceeding 30·0 ins. over Lapland, as well as over the Bay of Biscay and that part of the Atlantic adjoining our extreme south-west coasts. Lowest, below 29·5 ins. in a depression over the southern half of Russia; below 29·8 ins. in another off the north of Scotland, and in a very small system near Belfort. Falling briskly over Scandinavia later, changing little and irregular over the British Isles and France.

Friday, 21st August.

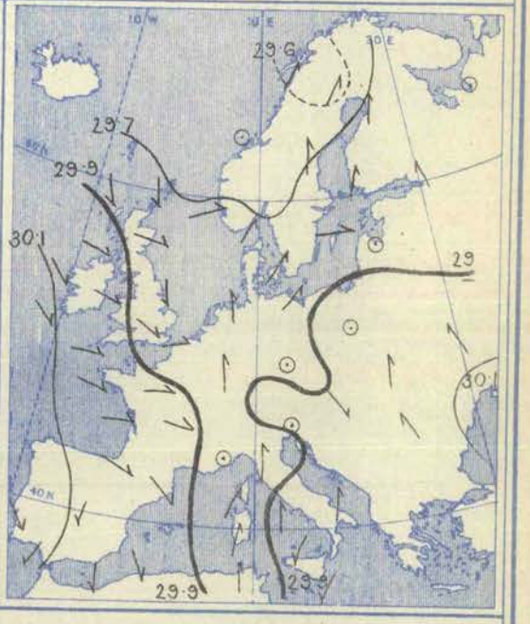
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern and south-western Europe, but very variable elsewhere—clear in some localities, overcast and showery in many others. Rain falling later in most parts of western and southern Europe, and in north Germany, the falls amounting to nearly half an inch at Fanö, to 0·4 in. at Riga, and more than 0·3 in. at Cambridge, Yarmouth, Munich, Nice, and Biarritz; to more than an inch at Florence and 0·4 in. at Pesaro and Leghorn.

Temperature highest, 81° at Brindisi and Tunis, and above 70° on the eastern and southern shores of the Mediterranean generally, as well as at Constantinople; 63° at Nice and Perpignan, as well as at the North Foreland and at the Helder. Lowest, 52° at Sumburgh Head, 53° at Bodo and Archangel, 54° in the north of Scotland and at Leith. Rising later to between 65° and 68° over England, to 72° at Berlin, to 75° at Nice, and 76° at Paris, to 90° at Cagliari and Tunis, and to 93° at Palermo.

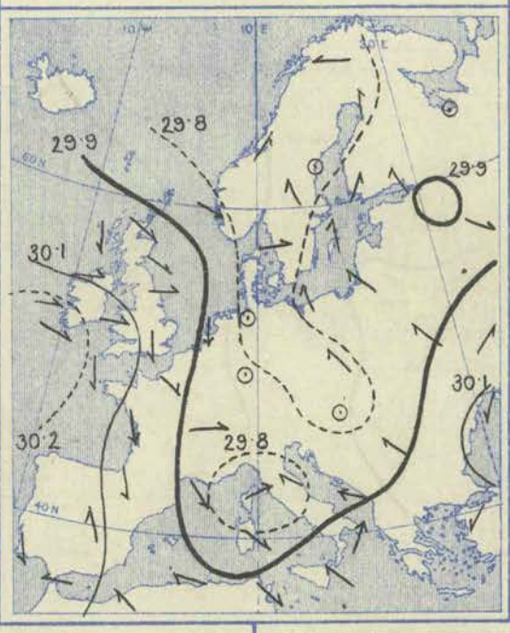
Wind North-Westerly and Westerly over the United Kingdom; North-Westerly to Northerly over France, but Southerly over Scandinavia and the Baltic; light and very variable elsewhere. A cyclonic circulation of very moderate winds prevailing over the Mediterranean. Wind becoming more Northerly over the British Islands later.

Barometer highest, (1) 30·2 ins. and more over Portugal and the adjacent parts of the Atlantic, and exceeding 30·0 ins. in the south-west of Ireland, the Bay of Biscay, and greater part of France; (2) 30·1 ins. and more to 30·0 ins. in another anticyclone lying over south-eastern Europe. Lowest, 29·6 ins. and less in a depression lying off the north-western coasts of Europe, and below 29·8 ins. over the northern parts of Great Britain and the North Sea and the whole of Scandinavia. Rising over the British Islands later; changing very little on the Continent.

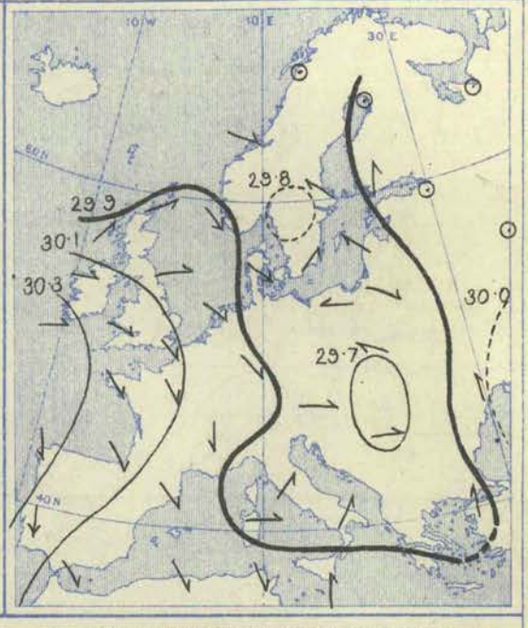
Saturday, 22nd August.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Spanish Peninsula, and over the greater part of south-eastern Europe; very changeable elsewhere, temporarily clear at a few stations, but cloudy or overcast at the others, and rainy over central Europe; lightning at Leghorn. Rain falling later in considerable quantities both over southern and central Europe; fine weather holding over England, but a fresh fall setting in over Ireland, and beginning to spread northwards and eastwards.

Temperature in morning highest, 86° at Brindisi, and exceeding 70° on the southern shores of the Mediterranean generally, 63° at Jersey and Prawle Point, 61° at Valencia (Ireland). Lowest, 50° at Sumburgh Head, 52° at Bodö, 55° at Skudesnaes, Cambridge, London, Paris, and Belfort. Rising later to a little above 70° at some of our own stations, to 71° at Paris, 72° at Berlin, 77° at Perpignan, and 84° at Lisbon.

Wind (1) moderate from West over Scotland; North-West over England, and North over the north of France, the Bay of Biscay, and Spain; (2) light and mainly Southerly or South-Easterly over central and northern Europe; (3) nearly calm between these two currents; (4) a separate cyclonic circulation of moderate to strong winds prevailing over the northern parts of the Mediterranean. Hardly any change over our Islands and western Europe during the day.

Barometer highest, (1) 30·0 ins. to 30·2 ins. and more over the British Islands, the west of France, Spain, and all the adjoining parts of the Atlantic; (2) 30·1 ins. and more to 30·0 ins. over the Black Sea and south of Russia. Lowest, below 29·8 ins. over Scandinavia, Denmark, north-western and western Germany, and also in a well-marked depression over the north-eastern parts of the Mediterranean. Rising later over France, England, and the North Sea, but beginning to fall again in the north-west of Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week there was a well-marked anticyclonic system, in which readings exceeded 30·2 ins., lying to the westward of the United Kingdom, and another, with readings exceeding 30·0 ins. over the south-east of Russia. In the meantime a depression, with minimum readings of 29·5 ins. and less, lay over the southern half of Scandinavia and the Baltic, and a "V" shaped secondary spread over south Germany to Austria. By Monday the western anticyclone (with a "col" over Great Britain) was moving eastwards, the northern depression was breaking up, and a new system was advancing over our north-western coasts from the Atlantic. This new depression became very complex in its passage, and spread southwards over the North Sea, causing rain in all districts and thunderstorms in many. By Saturday it had reached northern and central Europe, and the barometer was rising again over the United Kingdom, with fine, bright weather.

The wind during the week had been very variable in direction, and though moderate generally, blew with the force of a gale from South at Belmullet on Monday afternoon, and a strong, squally breeze from the same quarter in the evening over the Irish Sea. Its changes from North-West to South-West and back have been somewhat frequent, and at times abrupt; further changes of a similar character seemed probable as the week ended.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	34·6	+ 1·9	34	+ 2	SOUTHPORT	28·1	?	28	?
OSWALDKIRK (Yorkshire)	31·3	+ 1·5	31	+ 2	MANCHESTER (Oldham Road)	33·8*	?	34*	?
WORKSOP	19·4	-12·4	19	- 13	COLWYN BAY	33·1	?	33	?
THURCASTON (Leicestershire)	35·6	- 0·6	35	0	TENBY	36·5*	- 5·5	36*	- 6
MARGATE	46·1	+ 5·1	47	+ 6	NEWQUAY	32·0	-12·8	32	- 13
WESTBOURNE (Sussex)	43·2*	- 1·9	44*	- 2	TORQUAY	51·0*	+ 5·8	52*	+ 6
BRIGHTON	52·8	+ 5·6	53	+ 5	ARLEY COTTAGE (County Cavan)	14·1	-15·8	14	- 15
EASTBOURNE	52·1	+ 8·7	53	+ 9	GUERNSEY	54·2*	+ 0·7	55*	+ 1

* The values at Manchester, Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 35.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 29TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 206.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	38	58·1	47·3	52·3	2 below	72	−10	0	0	1643	+229	305	−318
	1. SCOTLAND, EAST	73	37	61·2	46·7	53·5	2 below	81	−15	0	0	1948	+215	408	−241
	2. ENGLAND, N.E.	71	42	62·2	49·1	55·3	2 below	93	−13	0	0	2096	+262	327	−222
	3. ENGLAND, EAST	72	39	65·2	49·2	56·7	2 below	103	−14	0	0	2349	+210	388	−229
	4. MIDLAND COUNTIES	75	39	63·3	48·9	55·7	3 below	96	−18	0	0	2387	+245	372	−247
	5. ENGLAND, SOUTH	79	44	65·9	52·3	58·7	2 below	117	−12	0	0	2600	+289	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	44	61·0	50·0	55·2	1 below	92	− 5	0	0	2075	+263	234	−228
	7. ENGLAND, N.W.	66	42	61·2	51·3	56·0	2 below	98	−12	0	0	2309	+349	201	−258
	8. ENGLAND, S.W.	74	33	63·6	51·9	57·4	2 below	108	− 7	0	0	2558	+389	155	−206
	9. IRELAND, NORTH	68	42	59·9	50·0	54·7	2 below	89	−13	0	0	2200	+277	162	−233
	10. IRELAND, SOUTH	71	44	62·8	52·1	57·1	1 below	106	− 6	0	0	2552	+380	89	−210
	—CHANNEL ISLANDS	70	51	64·7	55·6	59·8	1 below	125	− 5	0	0	2922	+496	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 206.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	28	18 more	163	+ 5	35·4	+ 4·1	25	+ 4	25	+ 4	785	− 58	24	− 2
	1. SCOTLAND, EAST	6	7	0 (average)	129	− 1	15·5	− 5·4	32	+ 1	32	+ 1	1025	+ 27	31	+ 1
	2. ENGLAND, N.E.	4	4	2 less	107	−14	11·3	− 5·1	27	− 3	28	− 3	968	+ 9	37	+ 1
	3 ENGLAND, EAST	4	7	1 more	108	−10	12·4	− 3·8	31	− 8	32	− 8	1193	+ 18	37	+ 1
	4. MIDLAND COUNTIES	5	6	0 (average)	102	−13	11·7	− 5·9	23	−12	24	−12	1073	+ 23	34	+ 1
	5. ENGLAND, SOUTH	4	6	0 (average)	93	−18	10·7	− 6·6	32	−10	33	−10	1255	+ 27	39	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	18	8 more	138*	+ 2	27·4	− 2·4	33	0	34	0	1087	+ 31	33	+ 1
	7. ENGLAND, N.W.	6	14	7 more	121	− 4	19·0	− 1·8	23	−11	24	−12	1043	+ 68	35	+ 3
	8. ENGLAND, S.W.	5	11	3 more	100	−26	14·1	− 9·5	34	− 8	35	− 8	1375	+ 99	43	+ 3
	9. IRELAND, NORTH	6	15	7 more	141	− 7	24·1	+ 0·7	23	− 5	23	− 6	939	− 31	29	− 1
	10. IRELAND, SOUTH	5	12	3 more	117	−17	19·6	− 5·2	18	−14	18	−15	1088	− 8	34	0
	—CHANNEL ISLANDS	5	8	3 more	110	−22	11·3	− 7·9	47	+ 1	50	+ 2	1550	+ 91	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was cool and unsettled. Very heavy rain was experienced in the extreme north and north-west, and considerable quantities in the west generally, while in the east and south the falls, although rather frequent, were less heavy. Thunderstorms occurred in many parts of Great Britain between the 25th and 27th.

Temperature was below the mean, the deficit ranging from 1° to 2° in the "grazing" districts, and from 2° to 3° in the "wheat producing" districts. The highest of the maxima were recorded on the 23rd, when they varied from 79° in England S., and 75° in the Midland counties, to 68° in Scotland W., and Ireland N., and to 66° in England N.W. The lowest of the minima were registered either on the 26th or 27th, and ranged from 33° in England S.W. (locally at Llandovery), and from 37° in Scotland E., to 44° in England S., Scotland W., and Ireland S., and to 51° in the Channel Islands.

Rainfall greatly exceeded the mean in Scotland N., and was considerably above it in all the western districts. In the east and south, however, the fall did not differ very much from the normal.

Bright Sunshine was deficient over England and Ireland, but was rather above the mean in most parts of Scotland, as well as in the Channel Islands. The percentage of the possible duration was as high as 50 in the Channel Islands, but elsewhere it ranged from 35 in England S.W., and 34 in Scotland W., to 24 in the Midland counties, and England N.W., 23 in Ireland N., and to 18 in Ireland S.

Barometer and Wind.—During the earlier half of the week an anticyclone was observed over France and the Bay of Biscay, while depressions moved eastwards to the northward of Scotland, the wind over our Islands being moderate to fresh from between south-west and west. By the 26th the anticyclone in the south had dispersed, but a new system gradually spread over our western and southern coasts from the Westward, and the depressions in the north, together with their secondaries, showed a tendency to move south-eastwards. The wind consequently became Northerly to North-Westerly, and blew strongly at some of the western stations. By the end of the week the anticyclone lay over France, while a deep depression was approaching our north-western coasts, with increasing South-Westerly to Southerly winds. In the extreme north-west the wind increased to the force of a gale, the accompanying rainfall being very heavy and persistent.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 199 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ꞩ	57	44	56·0	47·0	51·2	− 1·0	64	0	6	1·52	+0·72	*	*	*	*
	Stornoway	59	45	57·6	47·6	52·3	− 1·1	72	0	7	4·38	+3·51	30·2	+ 3·9	36	+ 4
	Wick	69	38	60·6	45·4	52·5	− 1·3	74	0	6	0·92	+0·32	*	*	*	*
	Glencarron Ꞩ	59	43	55.6	46·5	50·8	− 3·2	62	0	7	4.22	+2·67	*	*	*	*
	Fort Augustus Ꞩ	67	44	59·6	47·7	53·3	− 2·7	79	0	6	1.58	+0·81	21·6	+ 4·2	22	+ 5
	Fort William Ꞩ	63	45	59·0	49.3	53·9	− 2·5	83	0	7	4·06	+2·67	22·5	+ 2·0	23	+ 3
1. SCOTLAND, E.	Nairn	68	40	61·1	46·3	53·3	− 2·4	79	0	6	0.48	−0·08	*	*	*	*
	Aberdeen	68	37	61·3	46·9	53·7	− 1·8	82	0	7	0·75	+0·08	32·9	− 0·4	33	− 1
	Braemar Ꞩ	66	38	56·7	45·5	50·8	− 1·7	62	0	7	0·58	−0·34	25·2†	− 0·6†	25†	− 1†
	Ochtertyre Ꞩ	73	39	63·6	46·4	54·5	− 1·4	88	0	5	0·88	+0·09	*	*	*	*
	Leith	68	44	64·3	49·4	56·4	− 0·9	101	0	7	0·75	−0·19	*	*	*	*
	Marchmont Ꞩ	65	38	59·9	45·4	52.2	− 2·8	71	0	3	0·63	−0·10	31·5	− 1·9	32	− 1
2. ENGLAND, N.E.	Alnwick Castle	65	43	60·0	49·1	54·2	− 1·4	85	0	4	0·45	−0·18	*	*	*	*
	Durham	69	42	62·8	47·4	54·6	− 2·3	88	0	5	0·17	−0·39	32·9	+ 1·5	34	+ 2
	Shields	69	43	62·3	49·1	55·5	− 1·4	95	0	2	0·28	−0·32	*	*	*	*
	Scarborough Ⓜ	68	44	61·0	49·7	55·0	− 2·5	91	0	4	0·49	−0·06	*	*	*	*
	York	71	42	64·6	47·4	55.5	− 2·6	95	0	4	0·49	−0·06	25·6	− 5·4	26	− 6
	Spurn Head	67	48	62·3	52·1	56·9	− 1·6	104	0	4	0·34	−0·05	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	68	41	64·9	47·8	55·8	− 3·1	97	0	5	1·05	+0·48	26·2	−10·8	27	−11
	Yarmouth	67	45	64·0	50·7	57·0	− 2·5	105	0	4	0·66	+0·14	*	*	*	*
	Geldeston	68	39	65·9	47·8	56·3	− 2·9	100	0	4	0·54	+0·09	31·2	− 9·5	32	−10
	Cambridge	70	43	66·6	50·0	57·8	− 1·6	111	0	4	0·42	−0·08	31·8	− 7·4	33	− 7
	Rothamsted	72	43	64·5	49·6	56·6	− 1·8	102	0	4	0 62	+0·09	32·7	− 6·6	34	− 6
4. MIDLAND COUNTIES	Harrogate Ⓜ	68	39	61·2	47·9	54·2	− 3·0	85	0	7	0·69	?	19·3	?	20	?
	Bawtry (Hesley Hall)	70	41	63·9	46·7	54·8	− 3·4	90	0	2	0·24	−0·24	*	*	*	*
	Loughborough	70	42	63·6	49·4	56·1	− 3·3	99	0	4	0·32	−0·22	*	*	*	*
	Stamford (Ketton Hall)	68	43	64·9	48·7	56·3	− 3·1	100	0	5	0·25	−0·23	*	*	*	*
	Cheadle Ⓜ	65	43	59·9	47·8	53·5	− 2·8	81	0	6	1·14	+0·34	*	*	*	*
	Shirley (near Solihull)	70	41	63·0	49·4	55·8	− 3·1	97	0	7	0·87	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ												*	*	*	*
	Cirencester	74	43	64·7	49·7	56·8	− 0·5	104	0	5	0·59	−0·06	26·2	−12·1	27	−13
	Oxford	75	45	64·9	51·9	58·0	− 1·6	112	0	4	0·65	+0·17	27·0	−12·8	28	−13
5. ENGLAND, S.	London	74	45	67·9	51·0	58·9	− 2·4	118	0	4	0·44	−0·06	29·5†	− 6·5†	30†	− 7†
	North Foreland	68	49	64·9	53·3	58·8	− 0·9	118	0	5	1·06	?	*	*	*	*
	Dungeness	66	46	63·6	51·6	57·2	− 2·6	106	0	5	0·43	−0·04	*	*	*	*
	Hastings (St. Leonards)	68	48	65.2	53 3	58·9	− 1·5	118	0	5	0·54	+0·04	33·1	−10·8	34	−11
	Southampton	79	45	68·9	52·0	59·9	− 0·9	125	0	3	0·40	−0·17	35·0	− 9 8	36	−10
	Hurst Castle	73	46	66·7	53·7	59 8	− 1·2	125	0	3	0·29	−0·23	*	*	*	*
	Stowell Ⓜ	71	44	63·8	51·1	57·1	− 2·7	106	0	5	0·72	+0·05	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	46	59·6	47.9	53.4	− 2·9	80	0	7	4·42	+3·21	*	*	*	*
	Glasgow	65	44	60·6	49·4	54·7	− 1·2	89	0	5	1·29	+0·39	36·5	+ 7·8	37	+ 9
	Ardrossan	65	49	61·1	52·1	56·3	− 0·8	100	0	6	0·88	0·00	*	*	*	*
	Glenlee Ꞩ	68	44	62·0	49·6	55·4	− 0·2	94	0	7	1·36	+0·34	*	*	*	*
	Douglas (Isle of Man)	65	46	61·9	51·2	56·2	+ 0·2	99	0	6	1·14	+0·26	30·0	− 6·2	31	− 5
7. ENGLAND, N.W.	Stonyhurst	63	43	58·9	49·7	54·0	− 2·7	84	0	6	2·13	+0·97	16·5	−15·3	17	−15
	Blackpool Ⓜ	66	42	63·0	49·5	55·9	− 2·6	97	0	5	1·50	+0·79	24·7	− 7·5	25	− 8
	Manchester (Prestwich)	65	43	61·4	48·9	54·8	− 2·6	90	0	6	1·71	+0·92	16·4	?	17	?
	Liverpool Obsy. (Bidston)	65	47	61·1	52·3	56·4	− 2·4	101	0	6	1·60	+1·06	*	*	*	*
	Llandudno Ⓜ	66	50	61·8	54·8	58·1	− 1·3	113	0	5	0·69	+0·11	*	*	*	*
	Holyhead	65	48	61·0	52·6	56·6	− 1·9	102	0	5	0·98	+0·29	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	33	64·9	47·3	55·6	− 2·8	95	0	6	1·78	+0·76	*	*	*	*
	Pembroke	64	50	60·1	54·1	56·9	− 1·7	104	0	5	0·77	+0·14	28·8	−12·6	30	−12
	Clifton	70	46	62·8	53·4	57·8	− 1·4	111	0	5	0·68	−0·04	*	*	*	*
	Arlington (N. Devon)	68	43	61·9	51·0	56·1	− 1·5	99	0	5	1·40	+0·31	*	*	*	*
	Cullompton Ⓜ	74	45	65·7	51·9	58·4	− 0·7	115	0	4	0·69	+0·09	31·7	− 7·8	33	− 8
	Falmouth	69	50	63·1	53·7	58·1	− 1·3	113	0	5	1·47	+0·63	40·7	− 4·3	42	− 4
	Plymouth	72	48	64·4	51·6	57·6	− 2·6	109	0	5	1·09	+0·49	33·2	− 8·2	35	− 7
	Prawle Point	74	46	65·7	52·4	58·7	− 0·2	117	0	5	0·64	+0·14	*	*	*	*
9. IRELAND N.	Malin Head	61	49	57·4	52·3	54·7	− 2·5	89	0	5	1·38	?	*	*	*	*
	Londonderry	66	46	60·9	49·9	55·1	− 2·0	92	0	5	1·87	+1·05	*	*	*	*
	Edenfel (Omagh)	62	43	56·1	48·1	51·9	− 4·8	69	0	6	1·29	+0·49	*	*	*	*
	Belmullet	62	50	59·1	54·3	56·6	− 1·0	102	0	6	2·79	+1·82	*	*	*	*
	Markree Castle	65	45	61·0	50·2	55·3	− 0·6	93	0	5	1·60	+0·70	25·6	− 2·1	26	− 3
	Armagh	66	43	61·8	48·2	54·6	− 1·9	88	0	6	0·80	+0·19	23·6	− 2·5	24	− 3
	Donaghadee	68	45	62·3	50·4	56·0	− 0·7	98	0	7	0·82	+0·11	*	*	*	*
	Edgeworthstown	67	42	60·9	46·2	53·1	− 3·3	78	0	5	1·17	+0.42	*	*	*	*
10. IRELAND, S.	Dublin	71	46	63·5	51·3	57·0	− 1·3	105	0	5	0·47	−0·07	23·7	−11·0	24	−11
	Parsonstown	67	45	62·9	50·1	56·1	− 1·1	99	0	5	1·52	+0·82	17·9	−10·2	18	−12
	Kilkenny	71	44	64·3	50·0	56·7	− 1·7	103	0	5	0·72	−0·13	*	*	*	*
	Roche's Point	71	50	64·6	54·3	59·1	+ 0·6	120	0	4	0·66	−0·26	*	*	*	*
	Valencia	63	50	60·9	54·1	57·3	− 1·3	107	0	6	1·33	+0·21	11·2	−21·9	12	−23
	Killarney	69	47	62·5	52·0	56.9	− 1·8	104	0	6	2·06	?	*	*	*	*
	Foynes	64	49	60·7	53·0	56·6	− 1·4	102	0	5	1.43	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	52	63·6	55·0	59·0	− 0·7	119	0	5	0·83	+0·29	35·3	?	37	?
	Jersey	70	51	65·7	56·1	60·6	− 1·4	130	0	4	0·82	+0·32	50·4	− 3·0	53	− 2

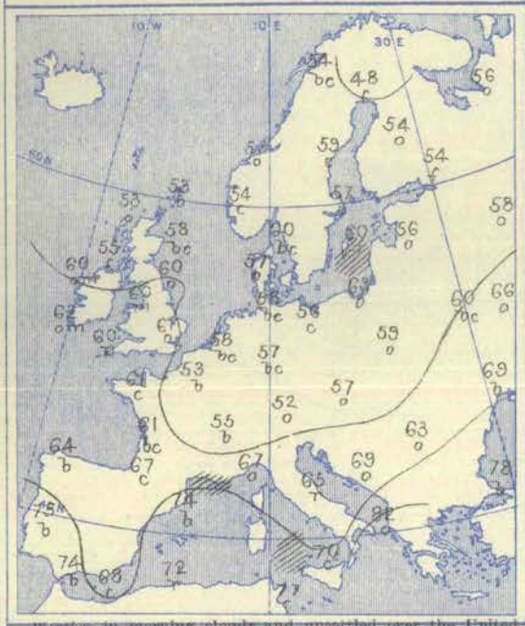
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 23rd August.

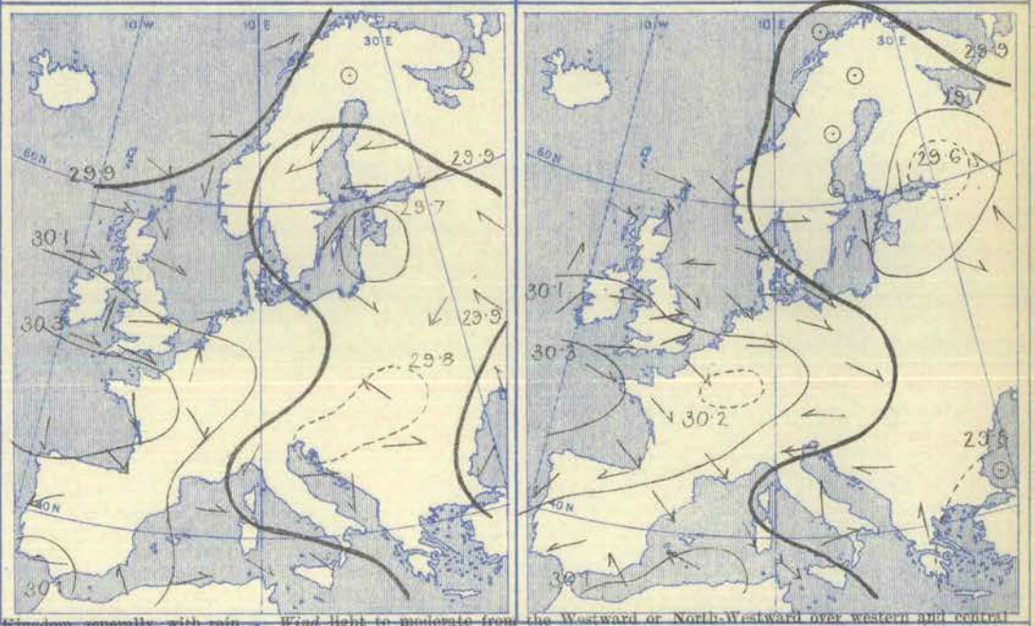
Temperature and Weather. 8 a.m.



Weather in morning cloudy and unsettled over the United Kingdom generally, with rain or passing showers in many places. Fine over France, Spain, and the Netherlands, but cloudy in most of the other European countries, with rain at some of the Austrian and Italian stations. Rain falling later in most parts of western and central Europe—heavily in places.

Temperature risen a little in our Islands, and also over the Spanish Peninsula, fallen in most other countries. Morning readings highest, 82° at Brindisi, 78° at Constantinople, 77° at Sfax, and 75° at Lisbon and Malta; above 65° over southern and south-eastern Europe generally, as well as at some of the English Channel stations. Lowest, (1) 48° at Haparanda, 53° at Sumburgh Head and Stornoway, and 55° at Malin Head; (2) 50° at Le Mans, 51° at Limoges, and 52° at Munich. Rising during day to 70° and upwards in many parts of England, and reaching 75° at Oxford. Exceeding 80° over Spain and southern Italy, the highest readings of all being 93° at San Fernando, and 90° at Lisbon.

Barometer and Wind. 8 a.m. and 6 p.m.

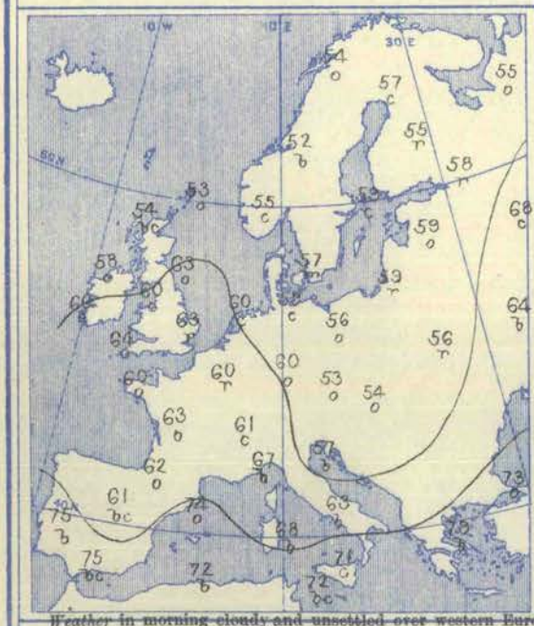


Wind light to moderate from the Westward or North-Westward over western and central Europe generally, but Easterly or North-Easterly over Sweden and Finland, and Northerly over the Baltic Provinces. Southerly or South-Easterly over the central and southern parts of Russia, but Northerly in Italy, and North-Easterly or Easterly in Spain. Subsequently backing to the South-Westward in Ireland; becoming variable in Scotland. Strong Easterly breezes setting in over the northern parts of Italy and the Adriatic.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Bay of Biscay and the west of France; 30·0 ins. and upwards in another system over the south of Russia. Lowest, 29·7 ins. and less in a well-marked depression over the Baltic Provinces; 29·8 ins. and less in another disturbance over southern Austria; 29·9 ins. and less in a large shallow area lying to the northward of our Islands and the westward of Norway. Baltic depression subsequently moving north-eastwards; Austrian disturbance passing southwards and partially filling up. Shallow low pressure system appearing in evening off our own extreme north-west coasts.

Monday, 24th August.

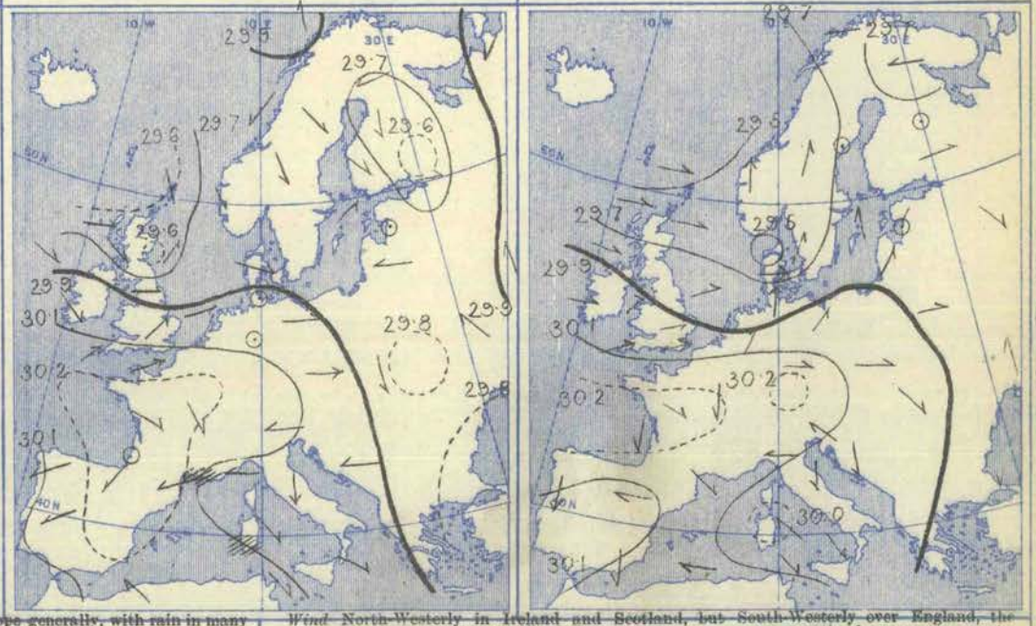
Temperature and Weather. 8 a.m.



Weather in morning cloudy and unsettled over western Europe generally, with rain in many places. Rainy also over Finland and the Baltic Provinces, but fine in most other parts of the Continent. Rain falling during day in most of the north-western, northern, and central countries—heavily in places; lightning seen at the North Foreland at night.

Temperature changed very irregularly. Morning readings highest, 79° at Athens and Patras, 75° at Lisbon and San Fernando, and 74° at Barcelona; above 65° over southern Europe generally, and above 60° at most of the English and Irish stations. Lowest, (1) 52° at Carlstad and Christiansund, 53° at Sumburgh Head, and 54° at Bodö and Stornoway; (2) 53° at Vienna, Munich, and Belfort. Rising during day to between 65° and 70° in most parts of our Islands; exceeding 75° over Italy and the south of France; exceeding 80° over the Spanish Peninsula, and reaching 93° at Lisbon.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind North-Westerly in Ireland and Scotland, but South-Westerly over England, the Netherlands, and the north of France, and strong on many parts of our western coasts. Light from the Westward over Denmark, Germany, and Austria; Southerly or South-Easterly over the central and southern parts of Russia; Northerly (North-East to North-West) over Finland and Sweden. Variable in the south of France; Easterly or North-Easterly at most of the Spanish and Italian stations; Westerly or South-Westerly in Greece. Subsequently backing to the Westward in Ireland and Scotland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over Spain, the Bay of Biscay, and the greater part of France. Lowest, (1) 29·6 ins. and less in a depression lying off the north of Scotland; (2) in a small secondary system off the Northumberland coast; (3) in another small system near St. Petersburg. Depressions in our neighbourhood subsequently moving eastwards, but barometer beginning to fall again on our western coasts in evening.

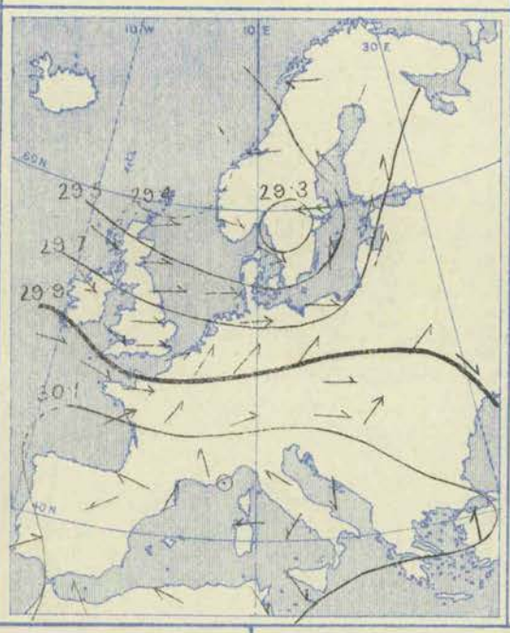
Tuesday, 25th August.

Temperature and Weather.

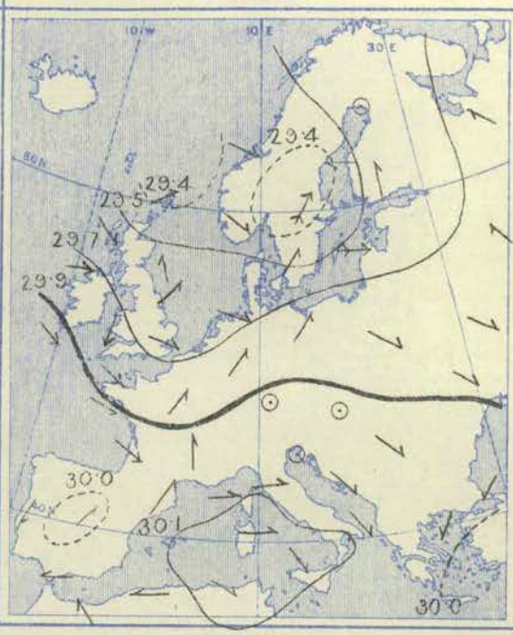
8 a.m.

Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over western and central Europe generally, with showers at several of our own western and northern stations, and with steady rain in many parts of Belgium, Germany, and Austria. Fine in most of the southern and eastern countries. Rain falling during day in nearly all parts of western, northern, and central Europe—heavily in places. Thunder and lightning occurring in various parts of Great Britain, and waterspouts seen at Prawle Point and Hurst Castle.

Temperature fallen a little over our Islands and their immediate neighbourhood, risen in most other localities. Morning readings highest, 77° at Barcelona, 76° at Athens, and 74° at Sfax; above 65° over southern Europe generally. Lowest, 50° at Storroway, 51° at Sumburgh Head, and 52° at Harparanda, Nairn, and Parsonstown. Daily maxima below 60° at many of our own western and northern stations, but a little above 65° over the central and southern parts of England. Thermometer exceeding 80° in most parts of southern Europe, and reaching 93° at Madrid.

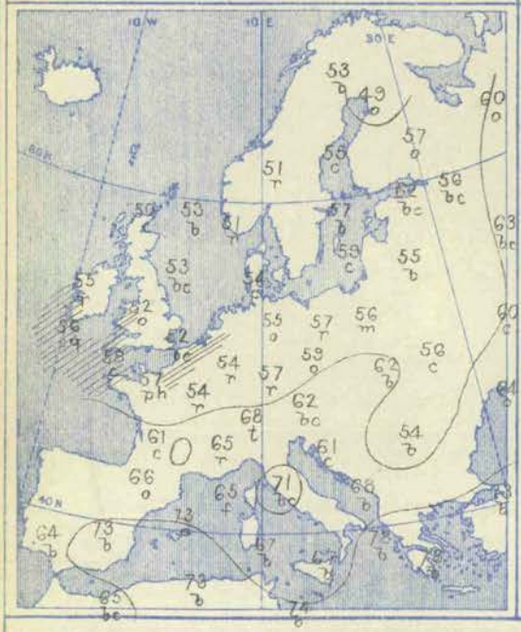
Wind light to fresh from the North-Westward in Ireland and Scotland; Westerly or South-Westerly in most other parts of western and central Europe, and strong in force on the Danish coasts; Easterly at most of the Scandinavian stations, with a gale at Karlstad. Light from the northward in Italy and Greece; variable over the Spanish Peninsula and the south of France. Subsequently veering to the North-Westward over England; South-Westerly gale springing up in the south of Sweden.

Barometer highest, 30·1 ins. and upwards in an anticyclone covering nearly the whole of southern Europe. Lowest, 29·2 ins. and less in a small depression lying near Karlstad; 29·4 ins. and less in a larger disturbance off the west of Norway. Depressions subsequently moving north-eastwards, but small secondary systems passing south-eastwards across our Islands during day.

Wednesday, 26th August.

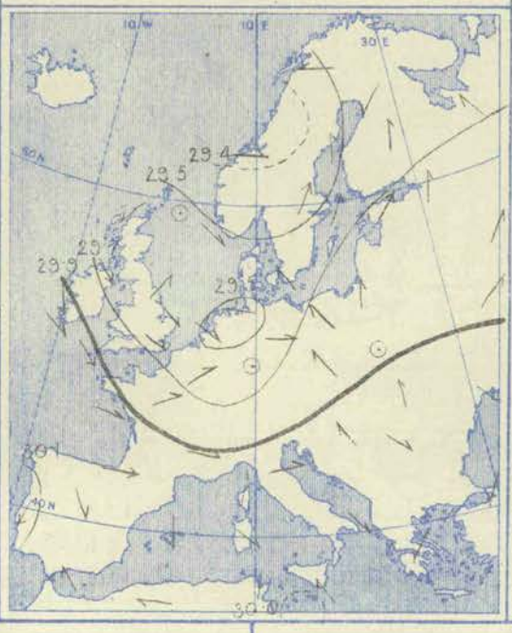
Temperature and Weather.

8 a.m.

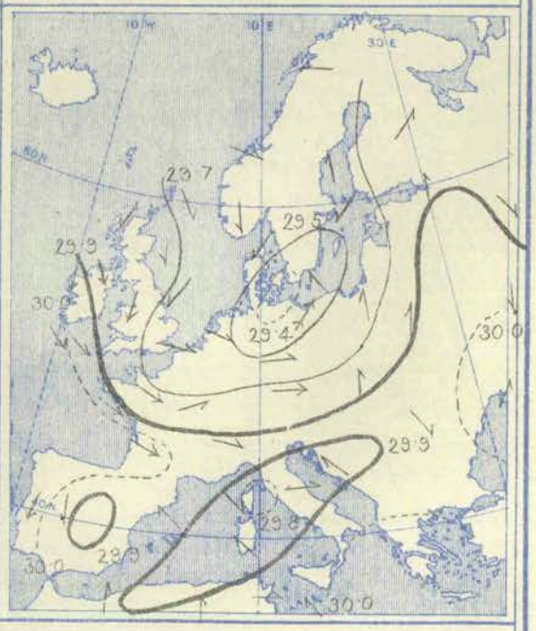


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the northern, eastern, and central parts of our Islands, but squally and showery on our west and south-west coasts. Rainy in the west of Norway, as well as in many parts of France, Germany, and the Netherlands; thunder reported at Belfort. Fine in most other parts of the Continent, but dull in the extreme north of Russia, with rain at Uleaborg. Rain falling during day over nearly the whole of the western, northern, and central Europe—heavily in places. Thunder and lightning occurring at many of the English stations, and also at Cuxhaven.

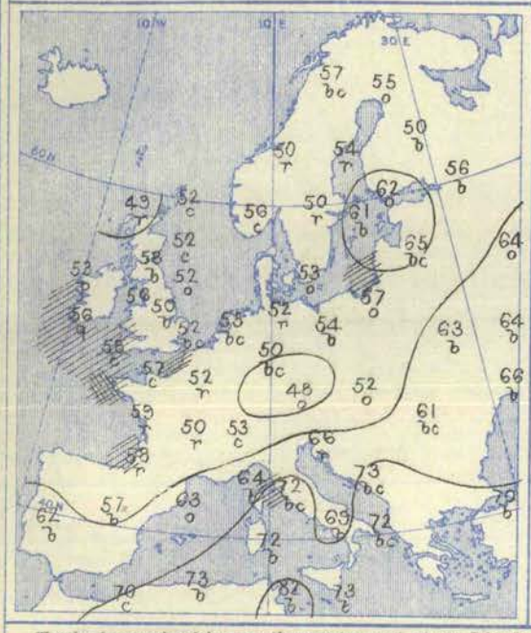
Temperature fallen a little in most places. Morning readings highest, 78° at Brindisi and Patras, 75° at Athens, and 74° at Palma, Malta, and Sfax; above 65° over southern Europe generally. Lowest, 49° at Harparanda, and 50° at Stornoway and Nairn; below 55° in all but the south-western parts of the United Kingdom, and also over the Netherlands and the north of France. Daily maxima below 60° at many of our own coast stations, and below 65° over the United Kingdom generally; thermometer exceeding 70° over Spain and the south of France, exceeding 80° in Italy, and reaching 92° at Cagliari. Snow falling night and day over Finland.

Wind strong from the North-Westward or Northward on the western coasts of our Islands and France; light or moderate from the same quarters over the greater part of England, but South-Westerly on our north-east coasts, South-Easterly in Germany, Southerly over Sweden, Finland, and the Baltic. Variable over Italy and the Spanish Peninsula, but Northerly in most of the south-eastern countries. No important change occurring over western Europe during day, but wind slightly to South-Westward over Germany and Italy.

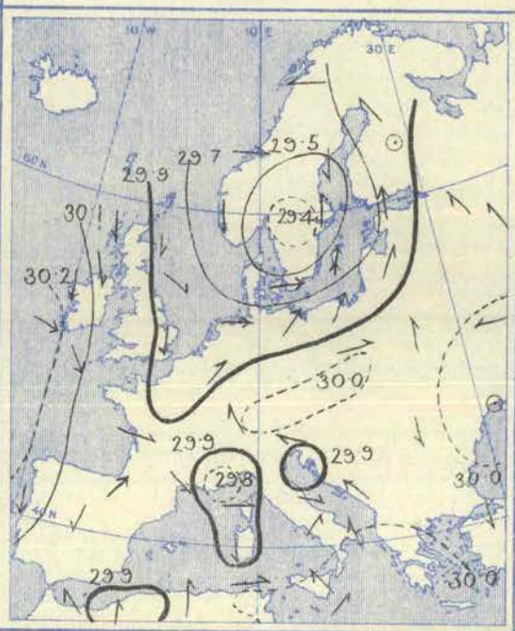
Barometer highest, 30·1 ins. and upwards in an area lying off the Portuguese coasts, 30·0 ins. and upwards in an irregularly shaped area covering the Bay of Biscay, Spain, Algeria, Italy, and the greater part of south-eastern Europe. Lowest, 29·4 ins. and less in a depression over the west of Norway, 29·5 ins. and less in a well marked secondary system over Holland and the neighbouring parts of Germany and Denmark. Further small secondary disturbances moving south-eastwards across our Islands during day

Thursday, 27th August.

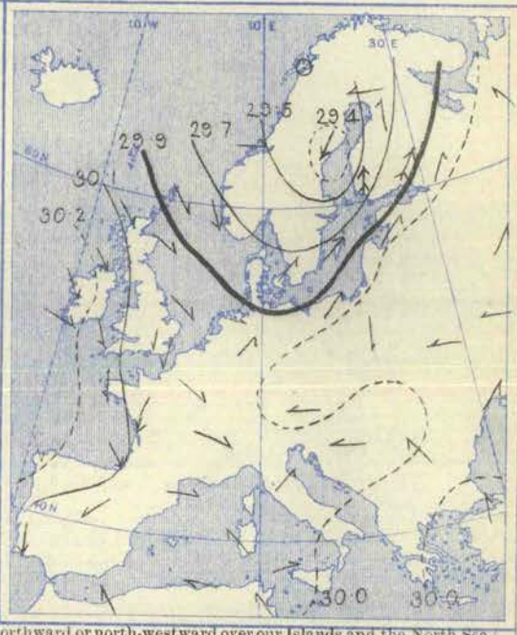
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of our Islands, but showery on our extreme north-west coasts. Cloudy and unsettled in many of the Continental countries, with rain at several of the Scandinavian, Danish, and French stations, as well as at Trieste. Fine over the greater part of southern and eastern Europe. Showers falling during day in many parts of the United Kingdom, and considerable amounts of rain at several of the Continental stations. Thunderstorm occurring at night in the Channel Islands and some parts of France, and lightning seen in the south-east of England.

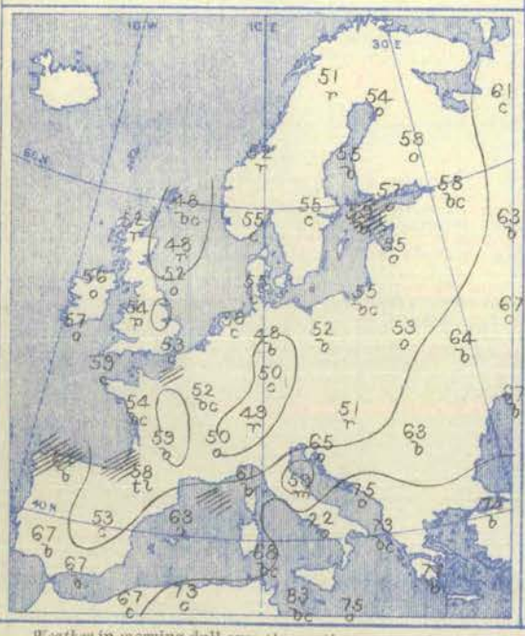
Temperature fallen in France, Spain, and Germany; changed irregularly elsewhere. Morning readings highest, 82° at Tunis, 81° at Sfax, and 73° at Lesina, Algiers, and Malta; above 60° over the greater part of Russia and the Baltic. Lowest, (1) 48° at Munich, and 50° at Wiesbaden, Belfort, Le Mans, and Limoges; (2) 49° at Stornoway, and 50° at Christiansund, York, and Loughborough. Daily maxima below 60° over the northern parts of our Islands, but a little above 65° in the south. Thermometer exceeding 75° in Spain and the south of France, and exceeding 85° in Italy, the highest reading of all being 86° at Brindisi and Palermo.

Wind light to fresh from the northward or north-westward over our Islands and the North Sea; South-Westerly over France, Germany, and the Netherlands; Southerly in Finland and the south of Sweden, with a whole gale at Wisby; Easterly in the north of Scandinavia. Light and variable over Italy, Austria, and the south of Russia; Northerly or North-Easterly over the Spanish Peninsula. Subsequently veering to the north-westward in France; Southerly gale springing up over the Gulf of Finland.

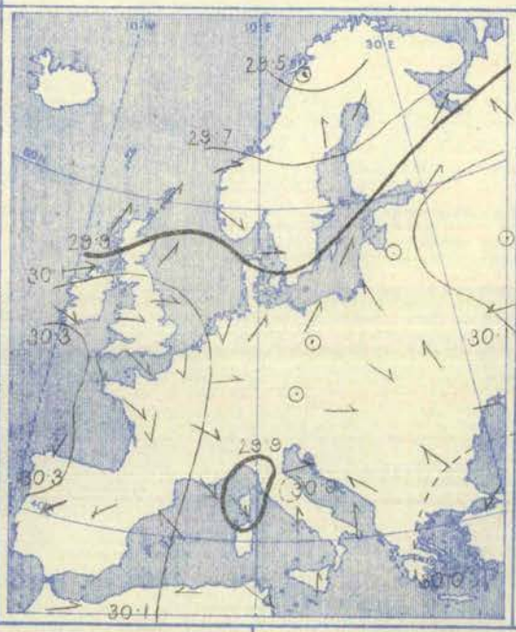
Barometer highest, 30·2 ins. and upwards in an anticyclone stretching from the Atlantic over the extreme south-west of Ireland; 30·0 ins. and upwards in other systems lying over various parts of the Mediterranean and eastern Europe. Lowest, 29·4 ins. and less in a well marked depression over the south of Sweden; 29·8 ins. and less in a small disturbance over the south-east of France; 29·8 ins. and less in another system over the northern part of the Adriatic. Anticyclone in west subsequently spreading eastwards; barometer rising over western Europe generally. Swedish depression moving north-eastwards.

Friday, 28th August.

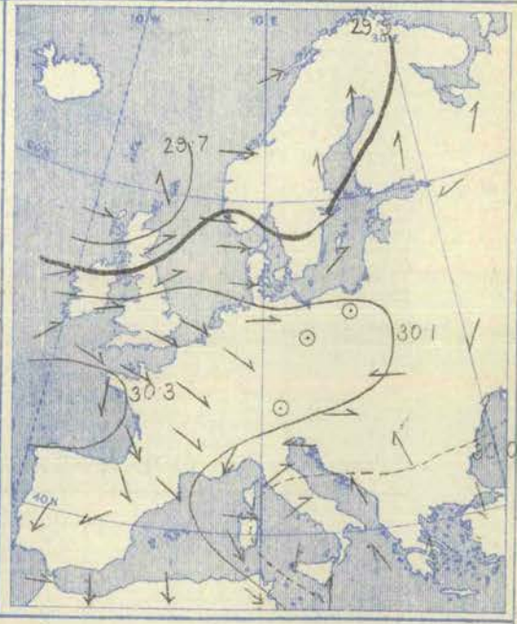
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the northern parts of our Islands generally, with rain in Scotland, and also in the west of Norway. Fair or fine in the southern parts of the United Kingdom, as well as in many of the Continental countries, but rainy in several parts of Austria, eastern Germany, and the east and south of France; thunderstorm reported at Biarritz. Heavy rain falling later in the north of Scotland and in the west of Norway—as much as 2·0 ins. at Stornoway; showers reported in France, Germany, and Denmark, and considerable falls of rain at Lesina and Palermo.

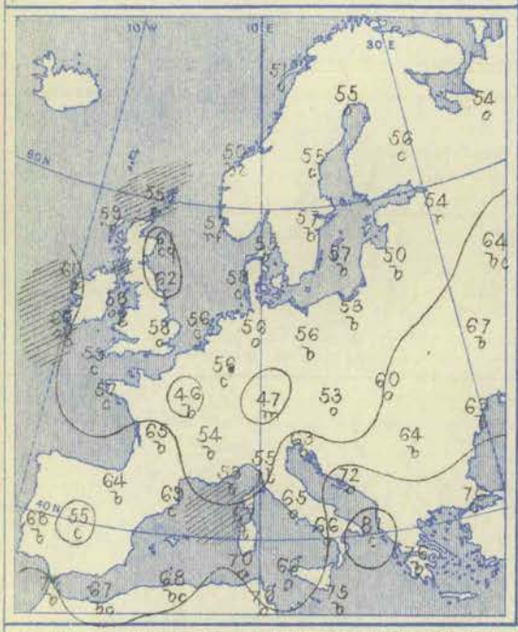
Temperature changed rather irregularly. Morning readings highest, 83° at Sfax, 77° at Patras, and 75° at Lesina, Athens, and Malta; above 65° in many parts of southern and eastern Europe. Lowest, (1) 43° at Limoges and Munich, and 48° at Le Mans and Munster; (2) 48° at Sumburgh Head, Wick, Nairn, and Aberdeen. Daily maxima below 60° at most of our own northern stations, but thermometer exceeding 65° in the extreme south. Rising to 70° or more in the south of France, to 80° or more over the southern parts of Italy, and to 95° at Palermo.

Wind South-Westerly over the northern parts of the United Kingdom and strong in force at Malin Head; North-Westerly or Northerly on our south and the French coasts; North-Easterly or Easterly over the Spanish Peninsula. Moderate to strong from the Westward or North-Westward on the eastern shores of the North Sea; South-Westerly over the Baltic and Gulf of Finland; Southerly over Sweden and northern Russia. Calm or variable over the greater part of Germany, Austria, Italy, and the south of Russia. Subsequently backing to the westward on our southern coasts; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying to the south-westward of Ireland; 30·1 ins. and upwards in another system lying over Russia. Lowest, 29·5 ins. and less in a depression over the north of Scandinavia; 29·9 ins. and less in a small disturbance over the Gulf of Genoa. New depression advancing later towards the north of Scotland, and barometer falling rather decidedly on our northern coasts.

Saturday, 29th August.

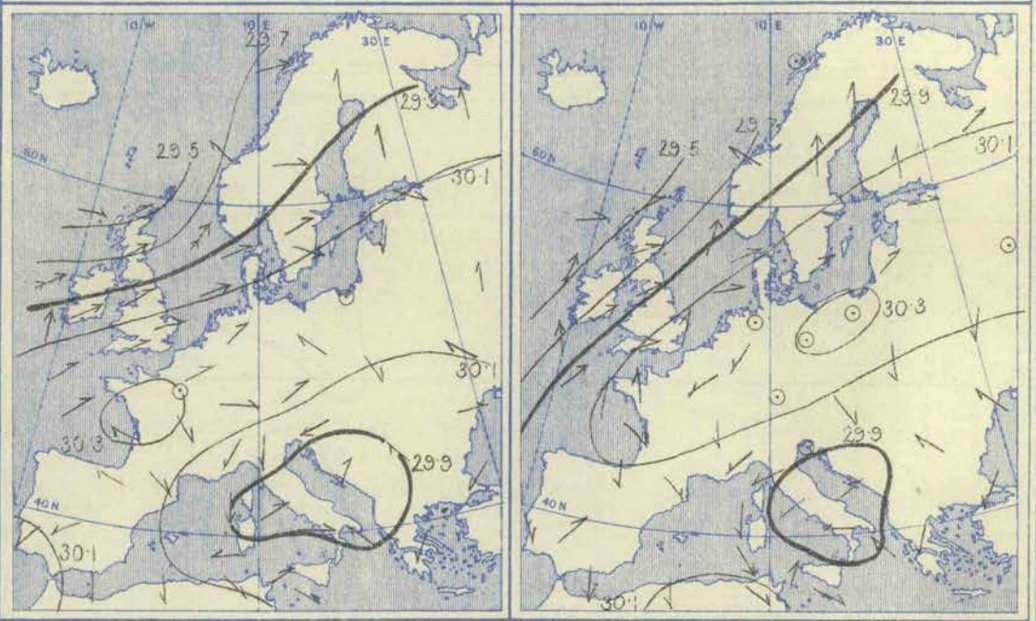
Temperature and Weather. 8 a.m.



Weather in morning fine at our eastern stations, but cloudy or dull in all other parts of the United Kingdom, with rain in the Shetlands and Hebrides, as well as at Skudesnaes. Fine over Germany, the Netherlands, France, and Spain; cloudy over northern Europe generally, as well as in Austria and Italy, with rain at St. Petersburg and Buda Pesth, and a thunderstorm at Leghorn. Rain falling later in the west and north of our Islands generally—heavily in the Hebrides and the west of Ireland. Large quantities reported also in Italy—as much as 2·2 ins. at Pesaro, where a thunderstorm occurred.

Temperature risen in most of the western and central countries—briskly in Scotland; changed irregularly elsewhere. Morning readings highest, 81° at Brindisi, 76° at Patras and Constantinople, and 75° at Athens and Malta; above 65° in most parts of southern and eastern Europe, and above 60° in the north-eastern parts of Great Britain. Lowest, 43° at Limoges, 45° at Belfort, 46° at Paris, and 47° at Munich. Rising during day to 65° and upwards in many parts of Great Britain, and reaching 60° at Wick and in London. Exceeding 75° in the south of France, and exceeding 80° in some parts of Spain and Italy.

Barometer and Wind. 8 a.m. 6 p.m.



Wind South-Westerly over our Islands, and all the more northern parts of the Continent; strong in force on our western coasts, and also in Denmark and the south of Scandinavia, with a gale at Belmullet and Skudesnaes. Light to moderate from the North-Eastward over the greater part of France and Spain, but North-Westerly in the south of France. Variable in Italy, and also in the south of Russia, but Westerly at most of the Austrian stations. Subsequently backing to the Southward in most parts of the United Kingdom, and increasing to a gale on our western coasts.

Barometer highest, 30·3 ins. and upwards in the north-west of France; 30·2 ins. and upwards in an anticyclone extending from the Bay of Biscay and the north of Spain across nearly the whole of France and Germany. Lowest, 29·5 ins. and less in a depression lying off the north of Scotland; 29·9 ins. and less in another disturbance over Italy and the Adriatic. Scotch depression subsequently moving northwards; new disturbance passing quickly along our extreme western coasts at night.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week a large anticyclone, which originally extended from the Atlantic over the greater part of western Europe, moved southwards and dispersed, while large depressions passed eastwards along our extreme northern coasts to Scandinavia, their secondaries appearing over the more central parts of the United Kingdom. Unsettled, rainy weather consequently spread southwards over all the more northern, north-western, and central countries, with thunder and lightning in many parts of Great Britain; the wind being at first moderate from the Westward, but afterwards strong from the North-Westward; gales occurred on some parts of our own western coasts.

After the 26th the depression passed away to the eastward, and a new anticyclone spread temporarily over all the more western parts of the United Kingdom and France. Later on, however, when this system moved eastwards and north-eastwards, a fresh series of depressions began to approach our Islands from the Atlantic, the disturbance which skirted the Irish and Scotch coasts on the 29th being of considerable severity, and occasioning Southerly gales at many of our western stations. During the latter part of the week frequent heavy rains were experienced on our extreme north and north-west coasts, and also in Italy and Austria—the unsettled weather in the latter countries being occasioned by a large shallow depression which passed over the Adriatic, Italy, and the neighbouring parts of the Mediterranean.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	37·8	+ 6·0	38	+ 7	SOUTHPORT	26·4	?	27	?
OSWALDKIRK (Yorkshire)	22·1	- 6·4	23	- 6	MANCHESTER (Oldham Road)	18·3*	?	19*	?
WORKSOP	19·7	-10·8	20	- 12	COLWYN BAY	24·5	?	36	?
THURCASTON (Leicestershire)	23·1	-11·3	24	- 11	TENBY	34·0*	- 7·2	35*	- 7
MARGATE	27·4	-12·1	29	- 12	NEWQUAY	29·2	-13·8	30	- 14
WESTBOURNE (Sussex)	35·2*	- 8·0	37*	- 8	TORQUAY	40·1*	- 3·9	42*	- 4
BRIGHTON	34·6	-11·4	36	- 11	ARLEY COTTAGE (County Cavan)	19·5	- 9·8	20	- 10
EASTBOURNE	30·8	-11·1	32	- 11	GUERNSEY	56·0*	+ 3·1	59*	+ 6

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt.d, Lith, 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 36.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 5TH, 1896. [*Price* 6*d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

DISTRICTS. (See p. 212.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	69	44	60·9	51·1	55·8	2 above	97	+19	0	0	1746	+248	305	−318
1. SCOTLAND, EAST	70	37	61·1	51·1	55·9	1 above	97	+ 5	0	0	2045	+220	408	−241
2. ENGLAND, N.E.	72	48	61·7	54·2	57·8	1 above	111	+10	0	0	2207	+272	327	−222
3. ENGLAND, EAST	74	48	64·3	53·1	58·5	0 (average)	116	+ 4	0	0	2465	+214	388	−229
4. MIDLAND COUNTIES	68	41	61·3	52·7	57·0	0 (average)	105	− 5	0	0	2492	+240	372	−247
5. ENGLAND, SOUTH	71	51	65·0	54·7	59·6	0 (average)	123	− 1	0	0	2723	+288	237	−240
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	69	42	63·5	51·5	57·2	2 above	106	+14	0	0	2180*	+276	234	−228
7. ENGLAND, N.W.	67	45	61·7	53·3	57·3	0 (average)	107	0	0	0	2416	+349	201	−258
8. ENGLAND, S.W.	69	43	62·4	53·0	57·5	1 below	109	− 2	0	0	2667	+387	155	−206
9. IRELAND, NORTH	75	40	61·8	50·5	55·9	0 (average)	97	− 1	0	0	2297	+276	162	−233
10. IRELAND, SOUTH	67	35	62·4	49·7	55·9	2 below	97	−11	0	0	2649	+369	89	−210
—CHANNEL ISLANDS	69	54	64·1	56·0	59·9	1 below	125	− 1	0	0	3047	+495	39	−109

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 212.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	3	4	6 less	166	+ 3	35·8	+ 3·5	23	+ 1	25	+ 2	808	− 7	24	− 2
1. SCOTLAND, EAST	5	6	1 less	134	+ 1	16·1	− 5·5	15	−15	15	−16	1040	+ 12	31	+ 1
2. ENGLAND, N.E.	5	7	1 more	112	−13	12·0	− 4·9	4	−25	4	−27	1002	− 16	30†	0
3 ENGLAND, EAST	5	15	10 more	113	− 8	13·9	− 2·9	10	−27	11	−29	1203	− 9	36	− 1
4. MIDLAND COUNTIES	6	14	9 more	108	−11	13·1	− 5·1	6	−27	6	−29	1079	− 6	33	0
5. ENGLAND, SOUTH	6	19	14 more	99	−15	12·6	− 5·3	23	−17	25	−18	1278	+ 9	39	+ 1
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	3	4	6 less	141	+ 1	27·8	− 3·0	22	−10	24	− 9	1109	+ 22	33	+ 1
7. ENGLAND, N.W.	6	11	3 more	127	− 2	20·1	− 1·5	8	−21	9	−21	1051	+ 48	34	+ 1
8. ENGLAND, S.W.	4	8	1 more	104	−25	14·9	− 9·4	22	−18	24	−18	1397	+ 81	42	+ 2
9. IRELAND, NORTH	5	4	4 less	146	− 7	24·5	+ 0·4	22	− 5	24	− 5	961	− 37	29	− 1
10. IRELAND, SOUTH	4	7	1 less	121	−17	20·3	− 5·3	27	− 5	29	− 5	1115	− 12	34	0
—CHANNEL ISLANDS	4	18	12 more	114	−22	13·1	− 6·6	26	−31	28	−30	1576	+ 60	48	+ 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued very unsettled in all parts of the Kingdom. Rain fell almost daily at most of the English stations, the falls over all the more southern and eastern counties being very heavy. Over Ireland and Scotland, however, the rain was less frequent and comparatively slight. Thunder and lightning occurred over south-eastern and central England on Monday, and in the south of Ireland and south-east of England on Saturday.

Temperature was a little above the mean in Scotland, but did not differ much from the normal value over England and Ireland. The highest of the maxima were recorded towards the end of the week, when they ranged from 75° in Ireland N., 74° in England E., and 72° in England N.E., to 67° in England N.W. and Ireland S. The lowest of the minima, which were registered on rather irregular dates, varied from 35° in Ireland S., 37° in Scotland N., and 40° in Ireland N., to 51° in England S., and to 54° in the Channel Islands.

Rainfall greatly exceeded the mean over central, southern, and eastern England, as well as in the Channel Islands, and was rather above the normal over south-western and northern England. In Ireland and Scotland, however, the fall was less than the mean. The total fall for the week exceeded 2 inches at many of our southern stations, the largest amounts recorded being 3·21 ins. at Jersey, 3·28 ins. at Hurst Castle, 3·45 ins. at Westbourne (Sussex), and 3·46 ins. at Parkstone (Dorsetshire).

Bright Sunshine was very deficient in nearly all parts of the Kingdom, but exceeded the mean in Scotland N., and was also fairly prevalent at a few isolated stations in other districts, notably at Margate and in the Scilly Islands. The percentage of the possible duration ranged from 29 in Ireland S., and 28 in the Channel Islands, to 11 in England E., 9 in England N.W., 6 in the Midland counties, and 4 in England N.E. In some of the inland counties bright sunshine was extremely deficient, thus, at Cambridge only 4 per cent. of the possible amount was recorded, at Harrogate 3 per cent., at Durham and at Thurcaston only 1 per cent., while at Worksop the week was altogether sunless.

Barometer and Wind.—The distribution of pressure during this period was very complex, the barometer being high both in the northern and southern parts of our area, while numerous depressions, mostly small and shallow, appeared in various parts of our Islands. The winds were consequently very variable in direction, but generally moderate or light in force.

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* This value has been altered owing to the receipt of further information for a preceding week.
† The corresponding value in last week's report should read "31."

II.—DATA from which the SUMMARY on page 211 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	48	58·3	51·9	55·0	+ 3·4	91	0	5	0·92	+0·10	*	*	*	*
	Stornoway	63	44	60·7	49·9	55·0	+ 2·3	91	0	1	0·04	−0·86	31·6	+ 5·8	33	+ 6
	Wick	64	45	59·7	51·3	55·3	+ 2·3	93	0	5	0·29	−0·30	*	*	*	*
	Glencarron Ⓢ	65	45	61·6	49·5	55·3	+ 2·2	93	0	4	0·22	−1·36	*	*	*	*
	Fort Augustus Ⓢ	69	45	62·1	51·6	56·6	+ 1·4	102	0	5	0·19	−0·60	14·0	− 3·6	15	− 4
	Fort William Ⓢ	65	48	62·8	52·3	57·3	+ 1·7	107	0	2	0·19	−1·26	24·0	+ 2·8	26	+ 4
1. SCOTLAND, E.	Nairn	64	43	60·0	51·1	55·3	+ 0·5	93	0	5	0·37	−0·15	*	*	*	*
	Aberdeen	62	51	59·0	53·3	56·0	+ 1·2	98	0	7	0·60	−0·05	12·4	−19·8	13	−21
	Braemar Ⓢ	63	37	58·5	47·5	52·7	+ 1·3	75	0	4	0·53	−0·42	16·7†	− 9·1†	17†	−11†
	Ochtertyre Ⓢ	70	41	65·6	51·3	58·1	+ 3·1	113	0	5	0·40	−0·35	*	*	*	*
	Leith	68	45	62·7	52·6	57·4	+ 0·9	108	0	3	1·01	+0·49	*	*	*	*
	Marchmont Ⓢ	66	46	60·9	51·0	55.7	+ 1·5	96	0	7	0·68	−0·04	16·3	−15·0	17	−15
2. ENGLAND, N.E.	Alnwick Castle	63	53	61·4	54·3	57·7	+ 2·9	110	0	3	0·39	−0·22	*	*	*	*
	Durham	68	52	61·7	53·8	57·6	+ 1·7	109	0	6	0·50	−0·02	1·0	−29·0	1	−31
	Shields	62	53	60·4	54·0	57·1	+ 0·9	106	0	4	0·26	−0·31	*	*	*	*
	Scarborough Ⓜ	64	52	61·2	54·5	57·7	+ 0·9	110	0	5	0·38	−0·17	*	*	*	*
	York	72	48	64·3	53·1	58·4	+ 1·1	115	0	7	1·29	+0·75	6·6	−22·8	7	−25
	Spurn Head	66	53	61·4	55.6	58·4	+ 0·4	115	0	4	1·05	+0·67	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	74	49	64·7	52·7	58·4	+ 0·5	115	0	5	1·22	+0·66	6·9	−28·1	7	−31
	Yarmouth	66	52	63·6	55·0	59·1	+ 0·5	129	0	5	1·53	+0·99	*	*	*	*
	Geldeston	73	48	66·3	51·6	58·6	+ 0·2	116	0	5	1·23	+0·75	22·1	−17·0	24	−18
	Cambridge	71	50	64·4	53·3	58·3	− 0·2	116	0	5	1·34	+0·85	4·1	−33·4	4	−36
	Rothamsted	67	50	62·7	53·1	57·7	+ 0·1	110	0	6	2·10	+1·58	7·4	−29·7	8	−32
4. MIDLAND COUNTIES	Harrogate Ⓜ	64	45	60·2	52·4	56·1	− 0·3	99	0	7	0·86	?	3·2	?	3	?
	Bawtry (Hesley Hall)	65	46	61·9	53·6	57·6	+ 0·3	109	0	7	2·19	+1·71	*	*	*	*
	Loughborough	64	48	61·9	53·6	57·6	− 0·8	109	0	6	1·65	+1·11	*	*	*	*
	Stamford (Ketton Hall)	65	45	62·6	52·7	57·4	− 1·3	108	0	6	1·15	+0·66	*	*	*	*
	Cheadle Ⓜ	65	49	58·5	52·0	55·1	− 0·5	92	0	7	1·06	+0·27	*	*	*	*
	Shirley (near Solihull)	65	51	61·0	53·0	56·8	− 1·3	104	0	5	1·17	?	*	*	*	*
	Churchstoke Ⓜ	68	41	62·5	50·7	56·3	+ 0·4	100	0	4	0·66	+0·08	10·0	−24·9	11	−26
	Hereford Ⓜ	68	41	63·0	53·3	57·9	− 0·2	111	0	4	0·78	+0·25	*	*	*	*
	Cirencester	64	48	61·4	52·4	56·7	+ 0·1	103	0	6	2·48	+1·85	11·0	−25.3	12	−27
	Oxford	67	51	63·0	53·7	58·1	− 0·7	113	0	7	2·16	+1·66	10·4	−27·6	11	−29
5. ENGLAND, S.	London	71	51	65·6	54·3	59·7	− 0·7	124	0	6	1·90	+1·42	8.5†	−25·5	9†	−27†
	North Foreland	69	53	66·0	55·7	60·6	+ 1·4	130	0	4	1·47	?	*	*	*	*
	Dungeness	69	51	66·3	56·6	61·2	+ 1·2	134	0	4	0·60	+0·12	*	*	*	*
	Hastings (St. Leonards)	69	52	65.4	55 1	60·0	+ 0·2	126	0	5	1·05	+0·54	24·9	−17·1	27	−18
	Southampton	69	52	64·8	54·3	59·3	− 0·7	121	0	7	2·59	+2·01	19·0	−24·0	20	−25
	Hurst Castle	67	53	64·3	55·4	59·6	− 0·7	123	0	7	3·28	+2·73	*	*	*	*
	Stowell Ⓜ	66	42	62·5	51·6	56·8	− 2·3	104	0	6	2·52	+1·82	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	47	64·8	50.6	57·4	+ 1·9	108	0	3	0·28	−0·98	*	*	*	*
	Glasgow	66	48	62·8	53·1	57·7	+ 2·6	110	0	4	0·55	−0·33	10·8	−16·9	11	−17
	Ardrossan Ⓢ	68	46	63·7	53·1	58·2	+ 1·9	113	0	3	0·34	−0·53	*	*	*	*
	Glenlee Ⓢ	69	42	64·5	48·4	56·1	+ 1·4	99	0	5	0·37	−0·67	*	*	*	*
	Douglas (Isle of Man)	66	48	61·8	52·2	56·8	+ 1·3	104	0	2‡	0·32	−0·56	33·4	− 1·9	36	− 1
7. ENGLAND, N.W.	Stonyhurst	66	48	61·5	51·8	56·4	+ 0·4	101	0	5	0·62	−0·51	9·5	−21·5	10	−23
	Blackpool Ⓜ	67	45	64·5	52·4	58·2	+ 0·6	113	0	4	0·63	−0·08	13·1	−18·8	14	−19
	Manchester (Prestwich)	65	48	61·0	52·4	56·5	− 0·2	102	0	7	1·42	+0·62	1·8	?	2	?
	Liverpool Obsy. (Bidston)	66	53	61·1	54·1	57·6	− 0·5	109	0	6	0·93	+0·31	*	*	*	*
	Llandudno Ⓜ	64	54	61·4	54·8	57·9	− 0·8	111	0	7	2·15	+1·55	*	*	*	*
	Holyhead	64	53	60·4	53·9	57·0	− 0·8	105	0	5	0·81	+0·11	*	*	*	*
8. ENGLAND, S.W.	Llandovery	68	48	64·4	51·7	57·8	− 0·1	111	0	5	1·03	+0·01	*	*	*	*
	Pembroke	62	52	60·0	54·9	57·3	− 0·7	107	0	2	0·11	−0·55	32·8	− 7·1	35	− 6
	Clifton	69	48	62·6	54·4	58·3	0·0	114	0	5	1·89	+1·18	*	*	*	*
	Arlington (N. Devon)	64	47	61·1	51·9	56·3	− 0·9	100	0	4	0·69	−0·38	*	*	*	*
	Cullompton Ⓜ	67	43	64·5	51·8	57·9	− 0·6	111	0	6	1·10	+0·50	18·0	−20·0	19	−21
	Falmouth	66	50	62·5	53·4	57·7	− 0·9	110	0	4	0·32	−0·55	29·3	−12·7	32	−12
	Plymouth	65	46	61·9	52·7	57·1	− 2·5	106	0	4	0·53	−0·09	12·7	−27·2	14	−28
	Prawle Point	66	50	62·1	53·0	57·3	− 1·2	107	0	5	1·00	+0·51	*	*	*	*
9. IRELAND N.	Malin Head	62	52	59·1	53·3	56·1	− 0·6	99	0	3	0·42	?	*	*	*	*
	Londonderry	75	47	64·4	50·6	57·2	+ 0·9	106	0	5	0·13	−0·67	*	*	*	*
	Edenfel (Omagh)	67	44	60·9	50·4	55·4	+ 0·5	94	0	5	0·34	−0·44	*	*	*	*
	Belmullet	67	51	61·4	53·3	57·2	+ 0·2	106	0	3	0·34	−0·61	*	*	*	*
	Markree Castle	70	49	62·3	50·9	56·3	+ 1·4	100	0	6	0·53	−0·35	21·4	− 5·5	23	− 5
	Armagh	64	42	62·8	47·5	54·8	− 0·8	90	0	6	0·31	−0·37	23·7	− 2·9	25	− 4
	Donaghadee	64	42	61·6	50·7	55·9	− 0·1	97	0	5	0·38	−0·30	*	*	*	*
	Edgeworthstown	66	40	61·9	47·0	54·1	− 1·5	85	0	4	0·70	−0·00	*	*	*	*
10. IRELAND, S.	Dublin	65	48	63·2	51·7	57·2	− 0·3	108	0	3	1·39	+0·89	37·3	+ 3·2	39	+ 3
	Parsonstown	65	40	62·0	48·1	54·7	− 1·6	89	0	5	1·33	+0·68	19·6	− 8·6	21	−10
	Kilkenny	65	35	63·9	47·0	54·6	− 3·1	88	0	3	0·28	−0·53	*	*	*	*
	Roche's Point	64	46	62·3	51·0	56·4	− 1·4	101	0	3	0·29	−0·61	*	*	*	*
	Valencia	67	39	62·3	50·0	55·9	− 2·2	97	0	4	0·69	−0.43	25·0	− 7·8	27	− 8
	Killarney												*	*	*	*
	Foynes	66	43	61·6	50·2	55·6	− 1·9	95	0	5	0·25	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	54	63·3	53·3	59·1	− 0·2	120	0	3	0·30	−0·26	38·8	?	42	?
	Jersey	69	55	64·9	56·6	60·6	− 1·0	130	0	5	3·21	+2·70	17·0	−34·2	18	−35

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

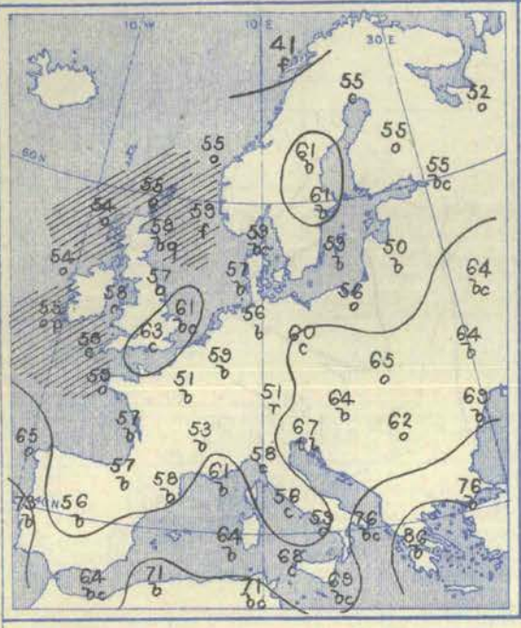
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

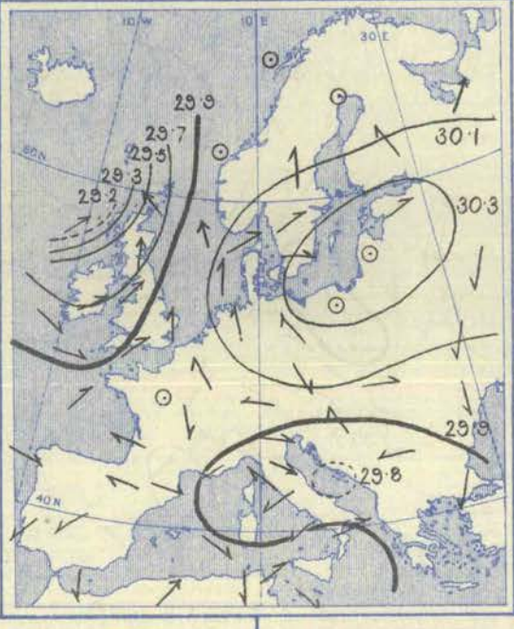
¶ The corresponding value in last week's Report should be "3"

Sunday, 30th August

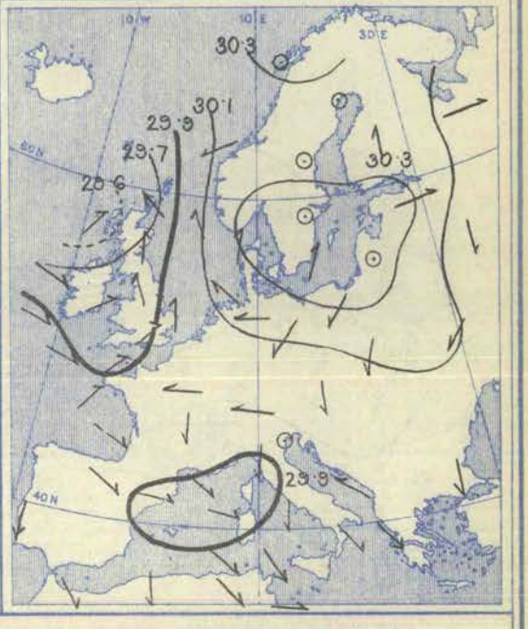
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia, the Baltic, Sweden, Denmark, France, and Spain; dull and unsettled over northern Italy on the one hand, and very unsettled over the British Isles on the other. Much rain later over England and the north of France, slighter falls in Scotland and many parts of central Europe, but weather fine over Scandinavia and the Mediterranean.

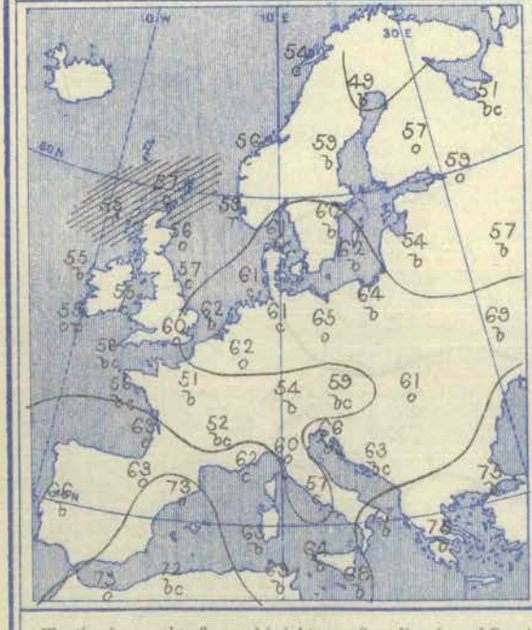
Temperature in morning highest, 86° at Athens, 76° at Constantinople and Brindisi, 71° at Sfax and Algiers, and above 60° over nearly all the southern and eastern parts of Europe, as well as at stations on the coasts of the English Channel. Lowest, (1) 47° at Bodö, 52° at Archangel and Stornoway, 54° on the north-west coasts of Ireland, and 55° at York; (2) 51° at Paris and Munich, 52° at Belfort.

Wind (1) Westerly strong over Ireland, Southerly moderate over England and the North Sea, strong over Scotland, South-Easterly at Sumburgh Head; North-Easterly to North-Westerly and light over central Europe, South-Easterly to Southerly over north Germany, Denmark, Scandinavia, and Finland, calm over Lapland. Becoming North-Westerly over the Bay of Biscay later, and South-Easterly over the North Sea and west of Norway.

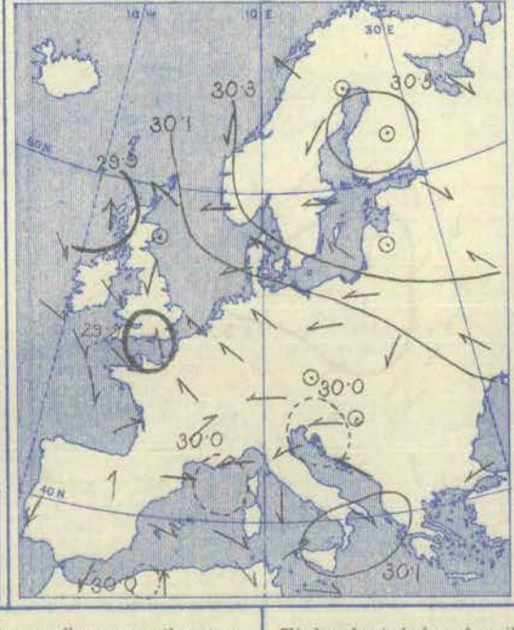
Barometer highest, 30·3 ins. and more over the Baltic and the Baltic Provinces of Russia; exceeding 30·1 ins. over the southern parts of Scandinavia, Denmark, and north Germany, and exceeding 30·0 in a band extending thence across the north of France to the Bay of Biscay and central Spain. Lowest, below 29·2 ins. in the centre of a depression moving north-eastwards outside the north-west of Scotland; below 29·8 ins. in another over the northern part of the Adriatic, and below 30·0 ins. over the south-west of the Spanish Peninsula. A well marked secondary disturbance advancing eastwards across England later.

Monday, 31st August.

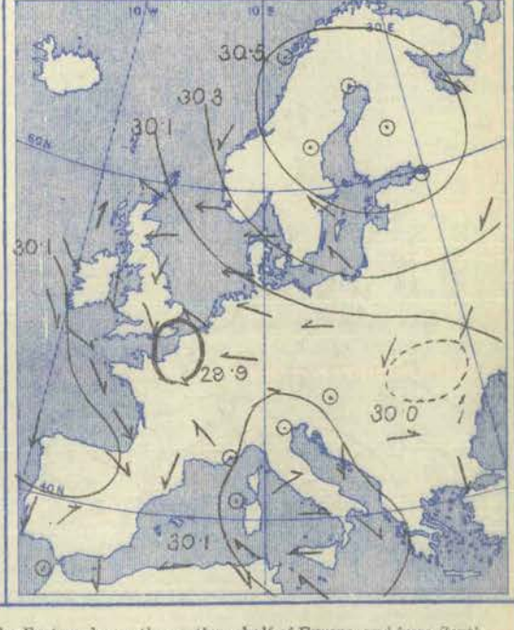
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scandinavia and Russia, as well as over south-eastern Europe, the Mediterranean, and many parts of France; very variable over the United Kingdom, and unsettled, but temporarily clear at a few stations. Thunderstorms occurring later in many parts of England, Ireland, and the north of France—the amounts of rainfall being 0·96 ins. at the North Foreland and Le Heve, 0·61 in. at Parsonstown, 0·47 in. at the Helder, and 0·77 in. at Sumburgh Head. Heavy falls over Austria also.

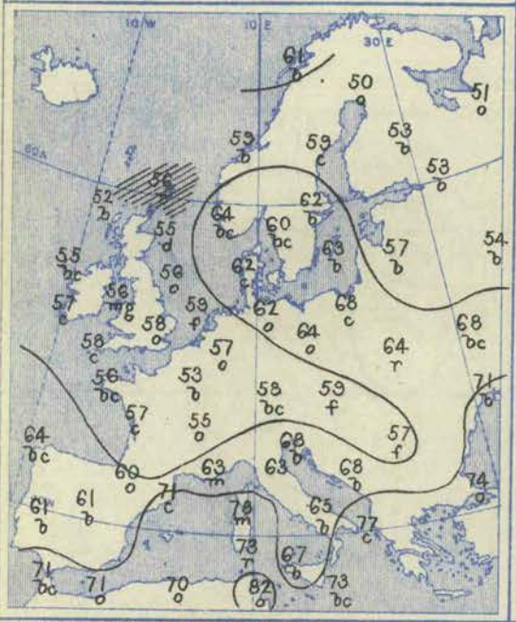
Temperature in morning highest, 77° at Brindisi, 75° at Patras, Athens, and Constantinople, and exceeding 70° at several other stations on the southern and western shores of the Mediterranean, 63° at Rochefort and Cape Gris Nez, as well as at the Helder, Breslau, and Memel. Lowest, 52° at Parsonstown, 53° at Malin Head, 55° at Holyhead, Stornoway, and Wick. Rising later to above 60° in most parts of our Islands, to 69° in the south of England, 71° at Cambridge, 75° at Berlin, 79° at Paris, 82° at Palermo, and 88° at Perpignan.

Wind moderate in force from the Eastward over the northern half of Europe, and from South-East and South in the north of Scotland; Westerly, however, in the north of Ireland; North-Westerly on our western and south-western coasts, and over Brittany. Very light and variable over the whole of central and southern Europe, as well as over the south-eastern half of England; no decided change later.

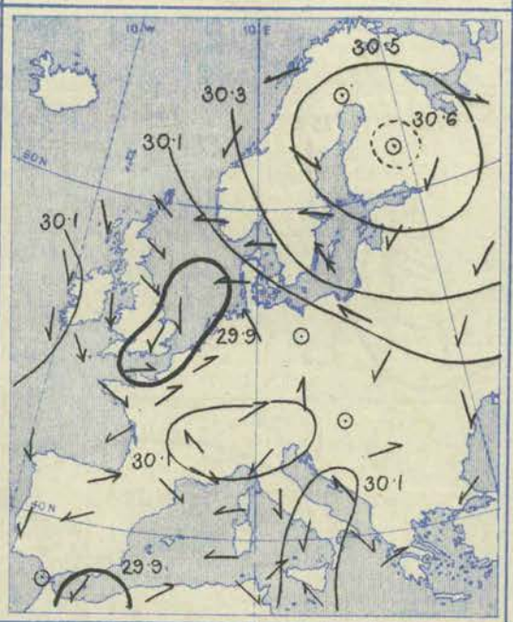
Barometer highest, (1) 30·5 ins. and more over Finland, and exceeding 30·2 ins over the whole of northern Europe; (2) exceeding 30·0 ins. off our south-west coasts, and over the whole of south-western Europe. Lowest, below 29·9 ins. off the north-west of our Islands, and in a depression lying over the south-east of England and the north-east of France. Slight local irregularities observed over southern Europe and Asia Minor also. Rising at our north-western stations later, changing little and irregularly elsewhere.

Tuesday, 1st September.

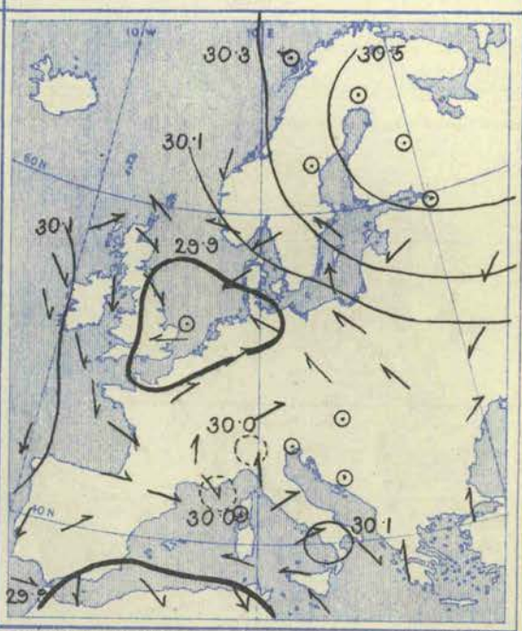
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia and the greater part of Scandinavia, as well as at many stations in south-western, southern, and south-eastern Europe; cloudy and very unsettled over the British Islands and their neighbourhood, with rain in places. Much rain later over the north-eastern, eastern, and southern parts of our Islands, at La Hève and Lorient; thunderstorms in several localities; heavy rain in north Germany also.

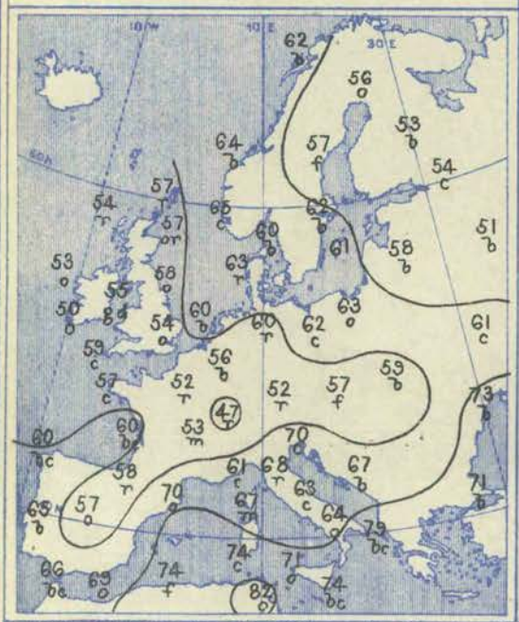
Temperature in morning 82° at Tunis, and exceeding 70° at most of the stations on the southern shores of the Mediterranean, at Athens and Constantinople; 68° at Trieste and Cracow, 66° at Swinemünde, 62° at Stockholm. Lowest, (1) 50° at Haparanda, 51° at Archangel, 53° at St. Petersburg; (2) 52° at Stornoway, 53 at Parsonstown, 54° at Prawle Point; (3) 53° at Paris and Belfort, 55° at Lyons. Rising later to 64° at Loughborough, 66° on our south-eastern coasts, 68° at Paris, 72° at Berlin, 73° at Nice, 86° at Brindisi and Sfax, 102° at Biskra.

Wind (1) Northerly to North-Westerly in direction, light to moderate in force over the British Islands, Westerly at Jersey and Havre, South-Westerly at Paris and Brussels; but South-Easterly to Easterly over the countries lying to the eastward of the North Sea, and blowing a gale at Wisby; (2) very light and variable over southern and south-eastern Europe generally. Small cyclonic systems prevailing off our south and east coasts during the day; little change elsewhere.

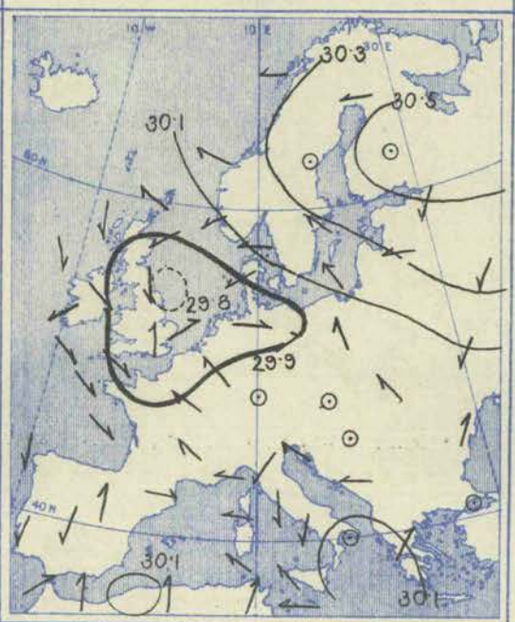
Barometer highest, (1) 30·63 ins. at Kuopio, and ranging between 30·5 ins. and 30·1 ins. over the whole of northern Europe and Russia; (2) 30·1 ins. and more over the west of Ireland, the south of France and Switzerland. Lowest, (1) 29·9 ins. and less in a complex depression covering the Netherlands, the east and south-east of England, and the adjoining parts of the Channel; (2) also in another depression over Algeria. Little change later.

Wednesday, 2nd September.

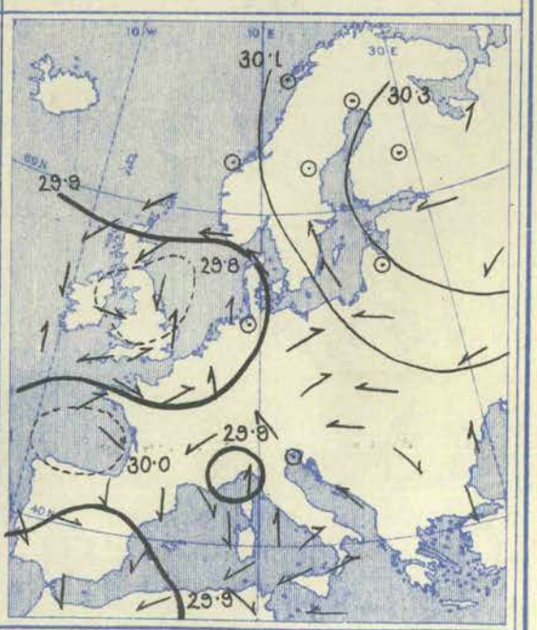
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Black Sea, the greater part of Russia, and Scandinavia, as well as on the south and west coasts of Spain, and west of France; very dull and unsettled over the United Kingdom, with rain in many places. Rain falling later over the north-western, northern, and eastern parts of our Islands, and at many of the Continental stations. Very heavy fall at Florence, but weather remaining fine along the south and south-west coasts of the United Kingdom, and over Scandinavia.

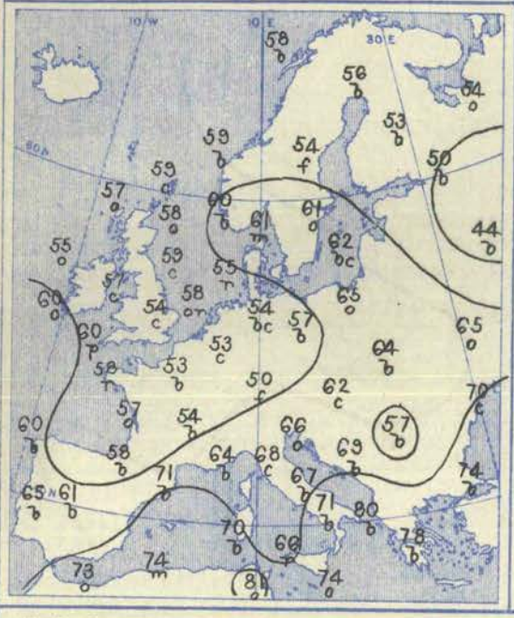
Temperature not changing much, except over central Europe, where a fall is reported: Morning readings highest, 82° at Tunis, and above 70° over south-eastern Europe, and the southern and western coasts of the Mediterranean; above 60° on the eastern shores of the North Sea, and over the Baltic, as well as over the Norwegian coast. Lowest, (1) 51° at Moscow, 53° at Kuopio; (2) 53° at Parsonstown, 54° at York, and in London; (3) 47° at Belfort, 52° at Munich and Paris. Failing to reach 60° at the Scotch stations all day, but exceeding 70° in some parts of Norway, as well as in the south of France; just touching 70° at Berlin.

Wind mainly Easterly over northern Europe, but North-Easterly to North-Westerly in the British Islands, and North-Westerly over the Bay of Biscay. Small cyclonic circulations observed over the north-east and east of England. No decided change later, except in the south of Ireland, where the wind shifted to the Southward.

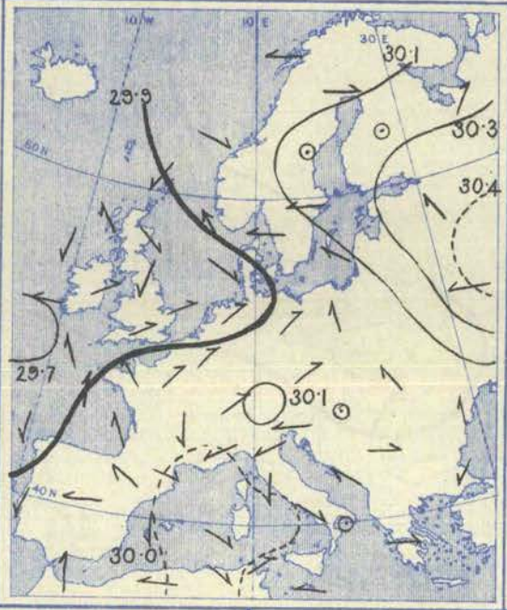
Barometer highest, 30·60 ins. at Kuopio, exceeding 30·1 ins. over northern Europe generally, and exceeding 30·0 ins. over the Bay of Biscay and south of France. Lowest, (1) 29·8 ins. and less to 29·9 ins. in a complex depression lying over the British Islands and their neighbourhood, and in a small system over Algeria; (2) below 30·0 ins. over the Black Sea. Falling in the west of Ireland later, little change elsewhere.

Thursday, 3rd September.

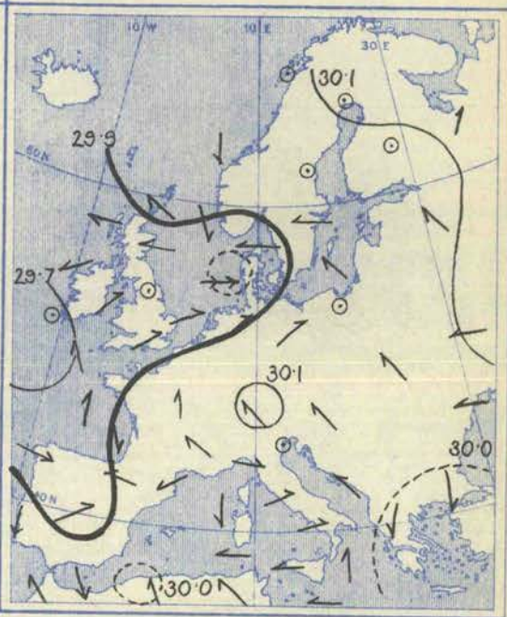
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western Europe, the Mediterranean, and Adriatic, also over the northern parts of Russia, Lapland, and Norway; very changeable and unsettled over the British Islands and their neighbourhood, with rain in many localities. Rain falling later in nearly all parts of the British Islands and north-western Europe, the fall being especially heavy in some parts of Denmark and over Brittany; thunderstorms prevalent over the southern half of Ireland.

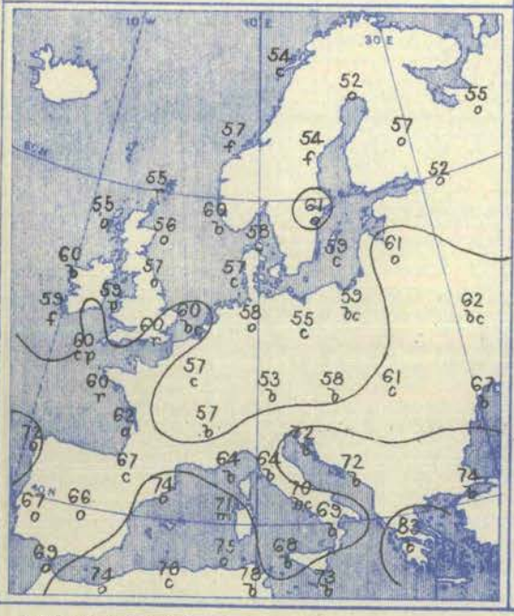
Temperature in morning highest, 81° at Sfax, 80° at Brindisi, and above 70° over the southern parts of the Mediterranean, Greece, and the shores of the Black Sea, 64° at Lemberg, 63° at Kharkow, 62° at Wisby, 60° at Skudesnaes. Lowest, 44° at Moscow, 50° at St. Petersburg; 50° at Belfort, 51° at Munich, 52° at Le Mans; 54° in London, 55° at Oxford. Rising later to between 65° and 68° in many parts of our Islands, to 69° at Paris, 73° at Nice, and 81° at Biarritz and Lisbon, 86° at Palermo.

Wind chiefly Easterly or North-Easterly over the northern countries of Europe, and South-Easterly to South-Westerly over the central countries; extremely variable elsewhere—separate cyclonic circulations being prevalent off our south-west coasts and over the North Sea. No decided change over our Islands later, but a new cyclonic system appearing over Denmark.

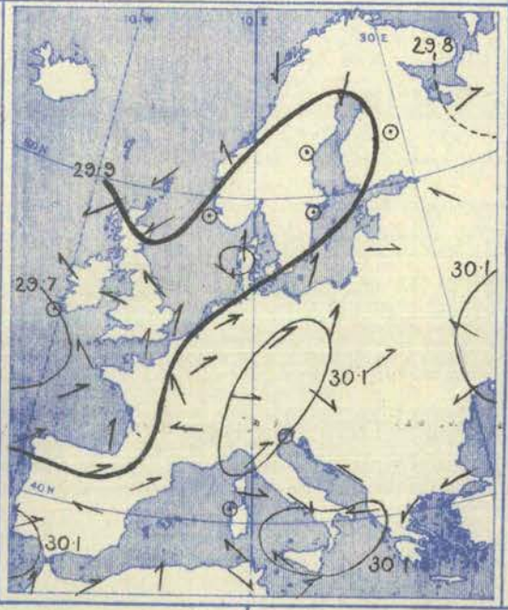
Barometer highest, (1) 30·41 ins. at Moscow, and exceeding 30·1 ins. over nearly the whole of Russia and Finland; (2) exceeding 30·0 ins. over southern Europe generally. Lowest, 29·7 ins. and less in a depression off the south-west coasts of Ireland, and apparently in a small system off our north-east coast; the latter disturbance filling up later, but a new one forming over Denmark.

Friday, 4th September.

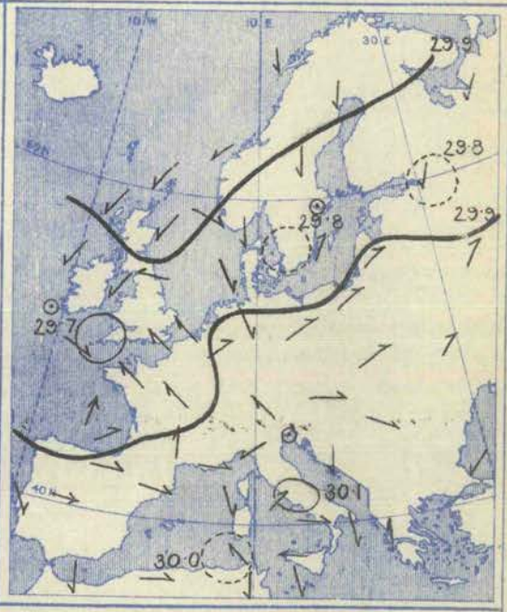
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the Mediterranean, south-eastern and central Europe; very unsettled in the north-west and over the British Islands, with rain in many places, and fog in a few. Large quantities of rain falling over France and Great Britain, and the north and west of France later, the heaviest falls being 0·95 in. at Hurst Castle, and more than 0·8 in. at Jersey and Oxford; smaller quantities over Germany. Thunderstorms at some of the south-western stations, with a solar halo at Jersey.

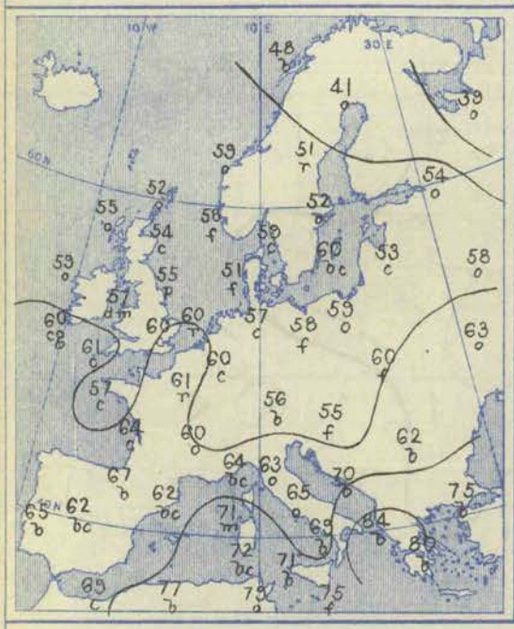
Temperature not changing much, but tending to fall in the far north. Morning readings highest, 84° at Brindisi, 83° at Athens, and exceeding 70° at the extreme southern stations generally. Lowest, 53° at Wick, 54° at York, 55° at Nairn, 52° at Haparanda and St. Petersburg, 53° at Kharkov, 53° at Munich, 54° at Belfort and Wiesbaden. Failing to reach 70° over the United Kingdom later, except at Leith, but touching 72° at Brussels, 73° at Paris, 79° at Lyons, 84° at Brindisi, 88° at Palermo, 100° at Tunis, and 102° at Biskra.

Wind moderate to light in force generally; (1) South-Westerly over the Bay of Biscay, Southerly to Easterly over the British Islands; (2) a separate cyclonic circulation over Denmark and south of Scandinavia; (3) very light and variable airs prevalent over south-eastern, central, and southern Europe.

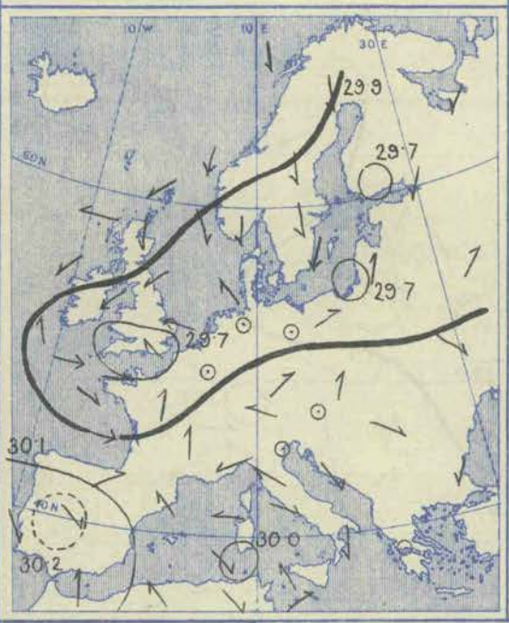
Barometer highest, (1) 30·25 ins. at Kharkov, and exceeding 30·0 ins. over all the central and southern countries; (2) 29·9 ins. and more over the north-east of Scotland and all the north-western parts of Scandinavia. Lowest, below 29·7 ins. in a depression off our south-west coasts, and in another over Denmark. Beginning to rise in the west of our Islands later, but falling over France and the south-west of England.

Saturday, 5th September.

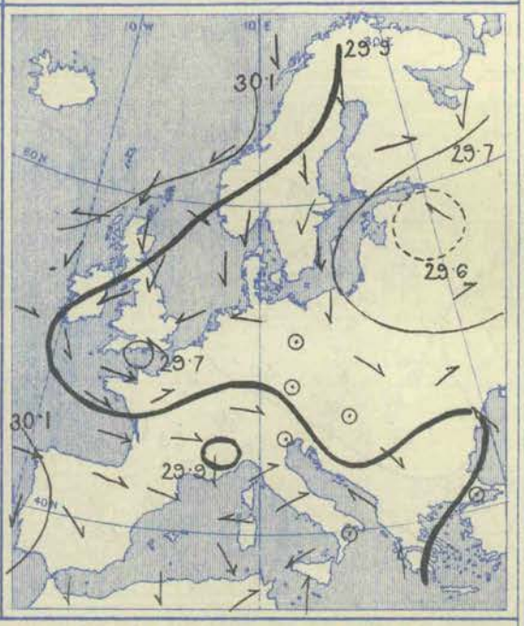
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western and south-eastern Europe, and the Mediterranean; very dull and unsettled over France and the British Islands, with rain in many places, and fog or mist in several others. Much rain later over Germany, Austria, and some parts of Russia, as well as over the north-east of France; smaller quantities over the south and east of England, and slight showers on our north and north-west coasts. Lightning seen in London and at Margate.

Temperature fallen fast over northern Europe, changing very little elsewhere. Morning readings highest, 84° at Brindisi, 80° at Athens, and exceeding 70° on the southern side of the Mediterranean generally and at Constantinople; 60° to 67° in the south and south-west of France, 61° at Paris, Jersey, and Cambridge, 60° at Valencia. Lowest, 39° at Archangel, 41° at Haparanda, 48° at Bodö, 52° at Sumburgh Head. Rising later to between 65° and 71° over England, to 72° at Paris, 77° at Nice, 86° at Brindisi, 102° at Malta, and 108° at Biskra.

Wind mainly Northerly to Easterly over northern Europe, Scotland, Ireland, and the northern parts of England, North-Westerly to South-Westerly and Southerly over France, South-Easterly over Belgium; light and anticyclonic over Spain, very light and variable over central and south-eastern Europe, and the south of France. The cyclonic circulation over the south of England becoming more complex later and spreading to Holland.

Barometer highest, (1) 30·2 ins. and more to 30·6 ins. over the Iberian Peninsula, and exceeding 29·9 ins. over southern and south-eastern Europe generally; (2) 29·9 ins. to 30·6 ins. and more over Scotland and the northern parts of Scandinavia. Lowest, below 29·7 ins. in an elongated depression over the south of England, and in two smaller ones—one near Memel, the other over the Gulf of Finland. English depression becoming more complex later and travelling eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier part of the week the distribution of pressure was rather complex, an anticyclone of considerable height being located over northern Europe, and a less important one off our own west and south-west coasts. In the intermediate regions,—i.e., over the western countries generally, the weather was influenced by shallow depressions which formed over our Islands and their immediate neighbourhood, the winds being light and somewhat variable, and the weather very unsettled, with heavy rains over France and the south of England, and with thunderstorms in several isolated places. Over southern Europe the conditions were at the same time affected by another series of disturbances lying over Italy and the Mediterranean, and which occasioned considerable falls of rain at some of the Austrian and Italian stations.

After Wednesday the high pressure systems to the north-east and south-west of our Islands appear to have given way, and for the remainder of the week cyclonic conditions prevailed over nearly the whole of Europe, the lowest pressures being found in a broad belt extending from our Islands to northern Russia. Unsettled weather now became still more general, large quantities of rain being experienced, not only in many parts of our Islands, but also in Germany, Austria, and Russia. At the close of the week a well-marked, though somewhat shallow, depression was moving eastwards across the south of England. This system occasioned further heavy rains over our southern counties, but in its rear the wind was veering to the northward or north-eastward, with some tendency for an improvement in the weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	12·7	-17·1	13	- 17	SOUTHPORT	12·8	?	14	?
OSWALDKIRK (Yorkshire)	4·6	-23·0	5	- 24	MANCHESTER (Oldham Road)	2.3*	?	2*	?
WORKSOP	0·0	-29·4	0	- 32	COLWYN BAY	9·5	?	10	?
THURCASTON (Leicestershire)	1·3	-31·3	1	- 33	TENBY	*		*	
MARGATE	41·1	+ 3·3	44	+ 4	NEWQUAY	24·7	-15·5	27	- 16
WESTBOURNE (Sussex)	20·2*	-21·2	22*	- 22	TORQUAY	14·1*	-27·9	15*	- 30
BRIGHTON	20·8	-23·3	22	- 24	ARLEY COTTAGE (County Cavan)	21·0	- 6·4	23	- 7
EASTBOURNE	26·9	-13·4	29	- 14	GUERNSEY	23·4*	-26·0	25*	- 26

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 37.] *Third Series.* WEEK ENDING SATURDAY SEPTEMBER 12TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 218.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	45	60·0	49·8	54·6	2 above	88	+15	0	− 1	1828	+263	305	−319
	1. SCOTLAND, EAST	69	36	59·9	49·9	54·7	1 above	89	+ 3	0	− 1	2134	+223	408	−242
	2. ENGLAND, N.E.	71	49	61·5	53·6	57·4	2 above	108	+12	0	0	2315	+284	327	−222
	3. ENGLAND, EAST	71	51	65·4	54·8	59·9	3 above	125	+19	0	0	2590	+233	388	−229
	4. MIDLAND COUNTIES	70	43	63·7	52·9	58·0	2 above	112	+ 8	0	0	2604	+248	372	−247
	5. ENGLAND, SOUTH	72	48	65·4	56·1	60·5	2 above	130	+12	0	0	2853	+300	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	48	61·4	52·5	56·7	2 above	103	+16	0	0	2283	+292	234	−228
	7. ENGLAND, N.W.	70	48	63·6	53·3	58·2	2 above	113	+12	0	0	2529	+361	201	−258
	8. ENGLAND, S.W.	70	42	64·0	55·2	59·4	2 above	122	+16	0	0	2789	+403	155	−206
	9. IRELAND, NORTH	72	43	62·6	52·3	57·2	2 above	106	+15	0	0	2463	+291	162	−233
	10. IRELAND, SOUTH	69	42	64·2	52·9	58·3	2 above	114	+11	0	0	2763	+380	89	−210
	—CHANNEL ISLANDS	72	56	66·9	58·2	62·3	3 above	142	+21	0	0	3189	+516	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 218.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	2	8 less	169	+ 2	36·0	+ 2·7	19	− 3	20	− 3	827	− *59	24	− 1
	1. SCOTLAND, EAST	5	9	3 more	139	+ 2	17·0	− 5·2	7	−21	8	−22	1047	− 9	30	0
	2. ENGLAND, N.E.	6	7	2 more	118	− 9	12·7	− 4·7	9	−19	10	−21	1011	− 36	29	− 1
	3 ENGLAND, EAST	6	14	9 more	119	− 4	15·3	− 2·0	13	−22	15	−24	1216	− 32	36	− 1
	4. MIDLAND COUNTIES	6	14	8 more	114	− 7	14·5	− 4·3	8	−24	9	−26	1087	− 30	32	− 1
	5. ENGLAND, SOUTH	5	12	6 more	104	−12	13·8	− 4·7	16	−22	17	−25	1294	− 13	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	7	3 less	145	+ 2	28·5	− 3·3	8	−22	9	−24	1117	0	32	0
	7. ENGLAND, N.W.	4	6	2 less	131	− 1	20·7	− 1·7	12	−19	14	−22	1063	+ 29	33	0
	8. ENGLAND, S.W.	6	13	5 more	110	−22	16·2	− 8·9	24	−14	27	−15	1421	+ 67	42	+ 2
	9. IRELAND, NORTH	4	8	0 (average)	150	− 6	25·3	+ 0·4	12	−14	13	−16	973	− 51	28	− 2
	10. IRELAND, SOUTH	6	20	12 more	127	−14	22·3	− 4·1	22	− 9	24	−11	1137	− 22	33	− 1
	—CHANNEL ISLANDS	6	12	6 more	120	−18	14·3	− 6·1	33	−15	37	−14	1609	+ 46	48	+ 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period continued in a very dull, unsettled, and rainy condition over the greater part of the Kingdom, but was relatively fair and dry in the north and west of Scotland. Thunderstorms were experienced in various parts of England during the latter half of the week.

Temperature was above the mean, the excess being 2° in nearly all districts. The highest of the maxima were recorded, as a rule, either on the 8th or 9th, and ranged from 72° in England S., and the Channel Islands, and in Ireland N., to 66° in Scotland W. The lowest of the minima, which were registered on rather irregular dates, varied from 36° in Scotland E., and from 42° in England S.W., and Ireland S., to 51° in England E., and to 56° in the Channel Islands.

Rainfall was again greatly in excess of the mean over the southern half of the Kingdom, and slightly in excess in England N.E. and Scotland E.; in most other districts, however, there was a deficit. The greater part of the fall was recorded during the later days of the week.

Bright Sunshine was again very deficient, the percentage of the possible duration ranging from 37 in the Channel Islands, and from 27 in England S.W., to 9 in the Midland counties and Scotland W., and to only 8 in Scotland E.

Barometer and Wind.—At the commencement of the week a depression was passing away from our coasts to Germany, and the wind was light or moderate from the Northward in all districts. By Tuesday an anticyclone extended North-Westwards over the North Sea to Scotland, and the wind over our Islands had become Easterly. From this time until the end of the period the barometer was high both over southern and northern Europe, while numerous depressions approached our western and south-western coasts from the Atlantic, and secondary disturbances were developed in various parts of England. With this distribution of pressure the wind varied from between South-West and South in the western and southern districts, while in the north it blew from the South-Eastward or Eastward; in force it was generally moderate to light, but was increasing considerably towards the end of the week.

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* The corresponding value in last week's report should read "57."

II.—DATA from which the SUMMARY on page 217 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	46	54·9	47·9	51·2	+ 0·2	64	0	3	0·35	−0·46	*	*	*	*
	Stornoway	68	45	62·0	49·1	55·2	+ 3·4	92	0	3	0·20	−0·72	23·4	− 1·6	25	− 2
	Wick	58	46	56·3	50·3	53·2	+ 0·7	78	0	4	0·51	−0·07	*	*	*	*
	Glencarron ℌ	70	45	61·9	49·0	55·1	+ 3·0	92	0	1	0·02	−1·60	*	*	*	*
	Fort Augustus ℌ	69	47	62·2	50·8	56·2	+ 2·0	99	0	4	0·05	−0·79	14·2	− 3·4	15	− 4
	Fort William ℌ	66	49	62·5	51·8	56·9	+ 2·3	104	0	3	0·24	−1·28	19·1	− 3·1	21	− 3
1. SCOTLAND, E.	Nairn	69	40	62·6	47·1	54·5	+ 0·7	88	0	4	0·16	−0·37	*	*	*	*
	Aberdeen	59	46	56·9	51·7	54·2	+ 0·4	85	0	6	0·49	−0·17	7·9	−22·9	9	−24
	Braemar ℌ	63	36	58·2	46·2	51·9	+ 1·5	69	0	4	0·91	+0·04	14·4†	−11·2†	16†	−12†
	Ochtertyre ℌ	68	49	61·6	51·7	56·4	+ 2·5	101	0	4	2·19	+1·44	*	*	*	*
	Leith	67	51	60·7	52·7	56·5	+ 1·0	102	0	4	0·65	+0·14	*	*	*	*
	Marchmont ℌ	65	46	59·3	50·0	54·4	+ 1·3	87	0	7	1·18	+0·46	6·5	−22·2	7	−24
2. ENGLAND, N.E.	Alnwick Castle	64	49	59·0	52·9	55·8	+ 2·1	97	0	5	1·14	+0·53	*	*	*	*
	Durham	69	50	60·8	52·1	56·2	+ 2·5	99	0	7	0·43	−0·10	10·7	−17·9	12	−20
	Shields	62	50	59·7	53·6	56·5	+ 1·5	102	0	6	0·31	−0·24	*	*	*	*
	Scarborough ℳ	63	53	60·6	55·0	57·7	+ 1·9	110	0	6	0·85	+0·27	*	*	*	*
	York	71	50	66·1	53.0	59·2	+ 2·9	120	0	7	0·59	+0·05	4·4	−24·1	5	−27
	Spurn Head	64	50	62·9	54·9	58·7	+ 1·5	117	0	6	0·85	+0·45	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	71	51	66·4	54·0	59·9	+ 3·0	125	0	7	1·15	+0·58	12·9	−20·1	14	−23
	Yarmouth	65	52	63·7	56·3	59·8	+ 2·2	125	0	4	0·65	+0·07	*	*	*	*
	Geldeston	70	51	65·6	54·7	59·9	+ 2·4	125	0	6	0·82	+0·32	14·3	−23·4	16	−26
	Cambridge	71	53	66·6	54·3	60·2	+ 2·6	127	0	7	1·85	+1·37	12·1	−23·4	13	−26
	Rothamsted	68	53	64·7	54·8	59·5	+ 3·1	123	0	6	2·61	+2·08	13·3	−21·7	15	−24
4 MIDLAND COUNTIES	Harrogate ℳ	66	50	61·8	52·3	56·8	+ 1·6	104	0	7	0·77	?	7·4	?	8	?
	Bawtry (Hesley Hall)	70	50	66·4	53·7	59·8	+ 3·7	125	0	7	0·84	+0·35	*	*	*	*
	Loughborough	70	52	64·3	54·1	59·0	+ 1·7	119	0	6	0·57	0·00	*	*	*	*
	Stamford (Ketton Hall)	70	51	65·9	53·6	59·5	+ 2·0	123	0	7	1·39	+0·82	*	*	*	*
	Cheadle ℳ	67	49	61·6	52·7	56·9	+ 2·3	104	0	7	1·21	+0·45	*	*	*	*
	Shirley (near Solihull)	67	50	63·1	53·1	57·9	+ 1·1	111	0	6	2·26	?	*	*	*	*
	Churchstoke ℳ	67	43	61·9	50·5	55·9	+ 1·2	97	0	5	1·83	+1·23	9·9	−23·1	11	−25
	Hereford ℳ	?	45	?	53·3	?	?	?	0	6	1·84	+1·28	*	*	*	*
	Cirencester	65	44	62·7	51·7	56·9	+ 1·5	104	0	6	1·40	+0·75	6·0	−26 8	7	−30
	Oxford	69	49	65·3	54·4	59·6	+ 2·1	123	0	5	2·04	+1·50	10·0	−25·3	11	−28
5. ENGLAND, S.	London	71	50	65·7	55·1	60·2	+ 1·1	127	0	5	1·35	+0·86	12 1†	−19·5	13†	−22†
	North Foreland	69	53	65·1	56·7	60·7	+ 2·2	131	0	5	0·89	?	*	*	*	*
	Dungeness	69	53	66·0	57·9	61·8	+ 2·7	139	0	6	0·83	+0·31	*	*	*	*
	Hastings (St. Leonards)	68	52	65·6	55 9	60·5	+ 1·7	130	0	5	1·41	+0·86	10·4	−29·6	12	−32
	Southampton	72	49	65·9	55·0	60·2	+ 1·3	127	0	5	1·45	+0·83	19·4	−20 6	22	−21
	Hurst Castle	69	57	66·0	58·6	62·1	+ 2·5	141	0	4	1·55	+0·95	*	*	*	*
	Stowell ℳ	68	48	63·4	53·5	58·2	+ 0·6	113	0	5	1·14	+0·39	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	48	63·0	51·0	56·7	+ 2·6	103	0	5	0·50	−0·88	*	*	*	*
	Glasgow	66	51	59·7	52·6	56·0	+ 2·9	98	0	4	0·85	−0·02	4·7	−21·1	5	−23
	Ardrossan	65	51	61·0	53·0	56·8	+ 1·6	104	0	4	0·30	−0·53	*	*	*	*
	Glenlee ℌ	65	49	62·0	52·5	57·0	+ 3·1	105	0	5	0·53	−0·56	*	*	*	*
	Douglas (Isle of Man)	65	49	61·3	53·2	57·1	+ 2·4	106	0	4	1·19	+0·33	11·0	−23·5	12	−26
7. ENGLAND, N.W.	Stonyhurst	67	48	61·7	52·7	57·0	+ 2·0	105	0	4	0·77	−0·37	9·3	−20·9	10	−24
	Blackpool ℳ	70	49	65·1	52·1	58·3	+ 2·3	114	0	4	0·55	−0·59	12·2	−17·6	13	−20
	Manchester (Prestwich)	69	52	64·2	53·7	58·7	+ 3·1	117	0	4	0·37	−0·45	13·3	?	15	?
	Liverpool Obsy. (Bidston)	68	51	63·9	53·9	58·7	+ 1·7	117	0	5	0·53	−0·15	*	*	*	*
	Llandudno ℳ	68	49	64·0	53·2	58·3	+ 0·6	114	0	5	0·80	+0·14	*	*	*	*
	Holyhead	65	50	62·6	54·1	58·2	+ 0·9	113	0	4	0·77	+0·07	*	*	*	*
8. ENGLAND, S.W.	Llandovery	69	42	65·6	51·4	58·2	+ 1·4	113	0	5	1·45	+0·43	*	*	*	*
	Pembroke	63	56	61·7	56·9	59·2	+ 1·8	120	0	6	1·22	+0·52	22·0	−15·0	24	−16
	Clifton	67	50	63·5	55·2	59·2	+ 2·1	120	0	5	1·42	+0·68	*	*	*	*
	Arlington (N. Devon)	67	51	64·3	53·3	58·5	+ 2·1	116	0	5	1·45	+0·38	*	*	*	*
	Cullompton ℳ	70	48	66·7	53·7	59 9	+ 2·4	125	0	6	1·30	+0 63	17·7	−18·2	20	−19
	Falmouth	66	57	64·5	57·8	61·0	+ 3·2	133	0	6	1·04	+0·12	25·4	−13·4	28	−15
	Plymouth	66	55	63·7	57·1	60·2	+ 1·6	127	0	6	1·46	+0·76	22·2	−15·7	25	−17
	Prawle Point	63	55	61·7	56·4	58·9	+ 1·1	118	0	6	0·93	+0·42	*	*	*	*
9. IRELAND N.	Malin Head	65	52	60·9	53·9	57·2	+ 1·5	106	0	2	0·09	?	*	*	*	*
	Londonderry	72	48	64·6	51·4	57·7	+ 2·5	110	0	4	0·13	−0·67	*	*	*	*
	Edenfel (Omagh)	68	44	63·7	49·1	56·1	+ 2·4	99	0	5	0·54	−0·24	*	*	*	*
	Belmullet	67	55	62·1	56·1	59·0	+ 2·7	119	0	4	1·41	+0·45	*	*	*	*
	Markree Castle	68	43	64·0	51·1	57·2	+ 3·2	106	0	6	1·01	+0·13	13·9	−11·6	15	−13
	Armagh	68	49	62·0	51·6	56·6	+ 2·2	102	0	7	0·94	+0·27	12·4	−14·4	14	−16
	Donaghadee	63	51	60·1	53·6	56·7	+ 1·5	103	0	3	0·90	+0·23	*	*	*	*
	Edgeworthstown	68	46	63·0	51·4	56·9	+ 2·3	104	0	5	1·17	+0·49	*	*	*	*
10. IRELAND, S.	Dublin	68	53	63·9	54·8	59·1	+ 2·7	120	0	5	1·38	+0·88	20·6	−12·6	23	−14
	Parsonstown	69	46	63·7	51·4	57·3	+ 2·2	107	0	5	1·31	+0·64	17·7	−11·3	19	−13
	Kilkenny	67	42	65·0	50·0	57·1	+ 0·5	106	0	5	2·26	+1·51	*	*	*	*
	Roche's Point	66	51	64·4	54·6	59·3	+ 2·4	121	0	5	3·00	+2·12	*	*	*	*
	Valencia	68	51	64·3	54·1	59·0	+ 1·6	119	0	7	1·76	+0.67	26·6	− 5·2	30	− 5
	Killarney	68	46	64·4	53·1	58·5	+ 1·6	116	0	6	2·62	?	*	*	*	*
	Foynes	66	47	? 64·0	? 52·6	? 58·0	? + 1·5	? 112	0	?7	1·44	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	56	65·6	57·3	61·3	+ 2·6	135	0	6	0·89	+0·26	34·5	?	38	?
	Jersey	72	57	68·1	59·0	63·3	+ 2·3	149	0	6	1·51	+0·93	34·6	−12·9	39	−12

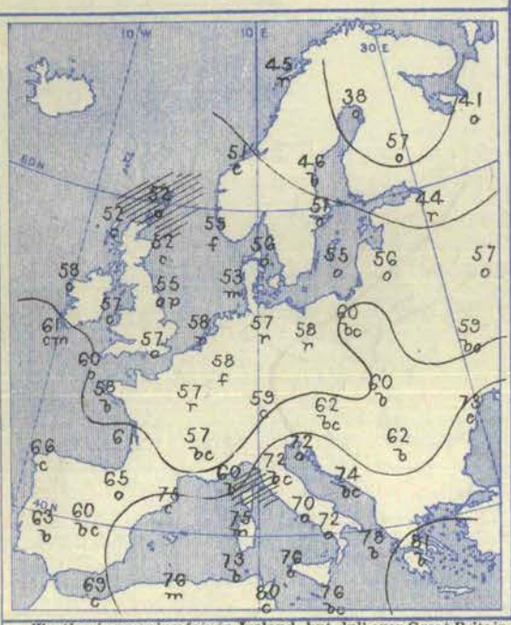
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

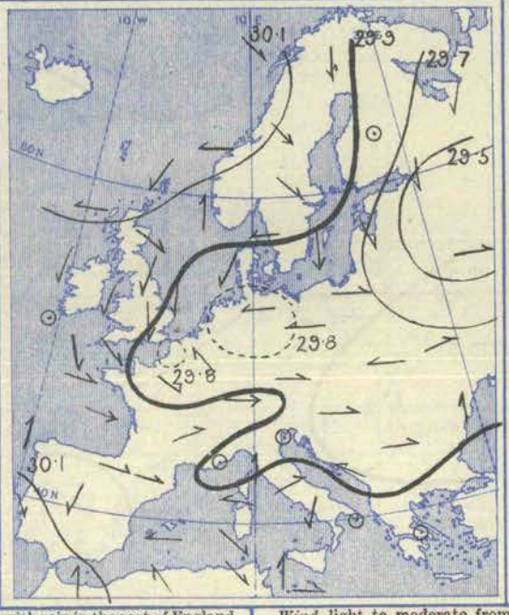
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 6th September.

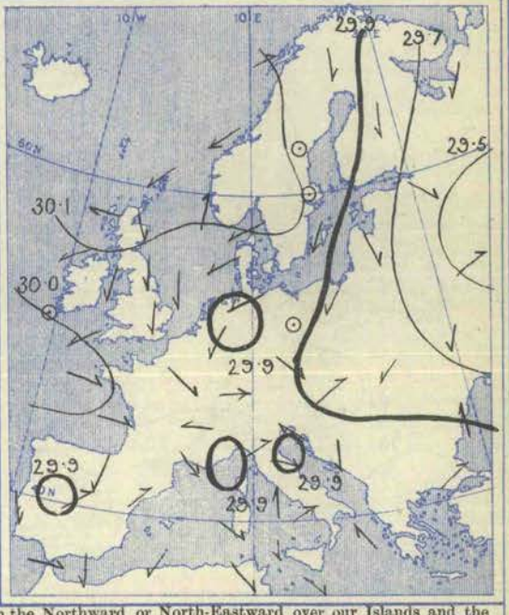
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair in Ireland, but dull over Great Britain, with rain in the east of England, as well as in the Netherlands, Germany, and the north-east of France. Fine over southern Europe as a whole, and also in Scandinavia, but dull in the northern and central parts of Russia, with rain at Helsingfors and St. Petersburg. Slight rain falling later at most of our own northern and eastern stations, and larger quantities over the east of France and the southern parts of Germany and Russia—as much as 2·4 ins. at Nancy.

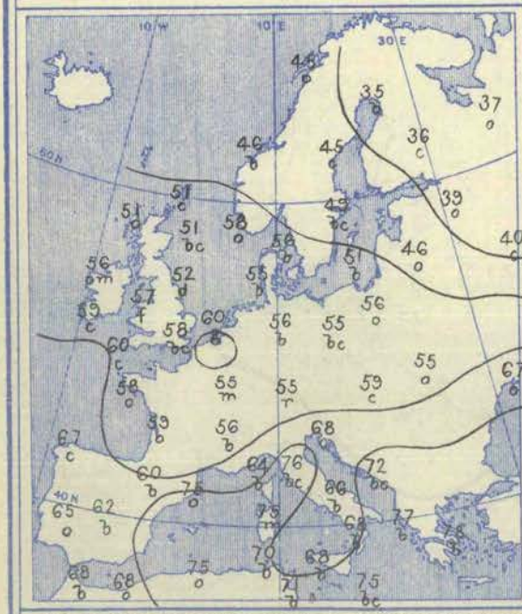
Temperature fallen in all but the southern countries. Morning readings highest, 81° at Athens, 80° at Patras and Sfax, and 78° at Brindisi; above 70° at the Mediterranean and Adriatic stations generally. Lowest, 38° at Uleaborg, 39° at Kuopio, 41° at Archangel and Haparanda, and 44° at St. Petersburg; very little above 50° in Norway or the north of Scotland. Daily maxima below 60° over the northern parts of our Islands generally, and below 65° at most of our southern stations. Thermometer exceeding 75° in Spain and the south of France, and exceeding 80° in Italy, the highest reading of all being 88° at Brindisi.

Wind light to moderate from the Northward or North-Eastward over our Islands and the southern parts of the North Sea; moderate from the Westward in France, and fresh or strong from the same quarter over south Germaay; light from the Eastward in north Germany. Moderate to strong from the Northward or North-Westward over Sweden and northern Russia; light from the Southward or South-Westward in the south of Russia, and from the Westward in Austria. Variable over Italy and the Spanish Peninsula. Subsequently veering to the Eastward in the west and north of our Islands; becoming calm or variable in Sweden.

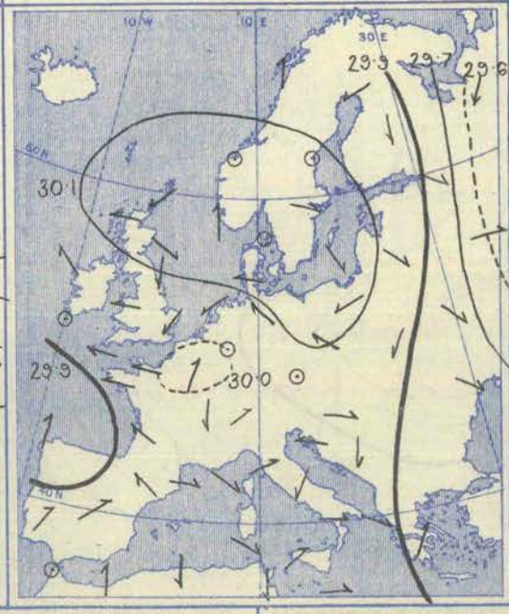
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the north of Scotland, the west of Norway, and the adjacent parts of the Atlantic, and also in another system over Morocco and the south of Spain. Lowest, 29·5 ins. and less in a well marked depression over central Russia; 29·8 ins. and less in two other systems—one lying over Holland and north Germany, and the other over the north-east of France. Latter depressions filling up gradually during day, but new disturbance beginning to approach our extreme south-west coast.

Monday, 7th September.

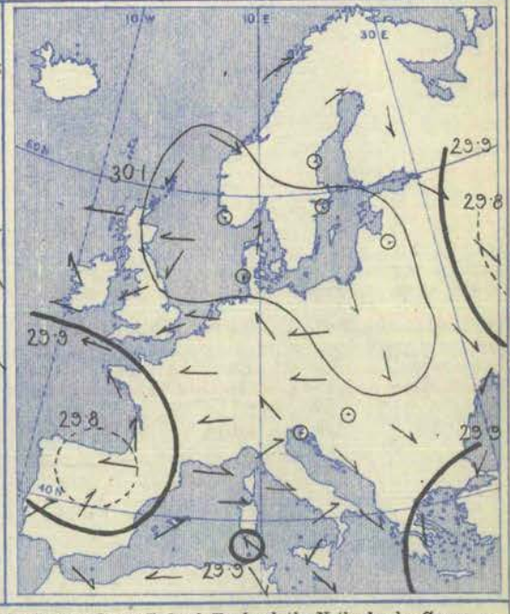
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with mist on our west and south coasts, and with showers at some of the eastern and south-eastern stations. Fair or fine over the greater part of the Continent, but dull in Russia, the eastern and southern parts of Germany, and the east of France, with rain at Munich and Belfort. Slight rain falling later in many parts of England and Ireland, and larger amounts in the west of France, south Germany, Austria, and northern Italy. Thunderstorms occurring in the south-west of France.

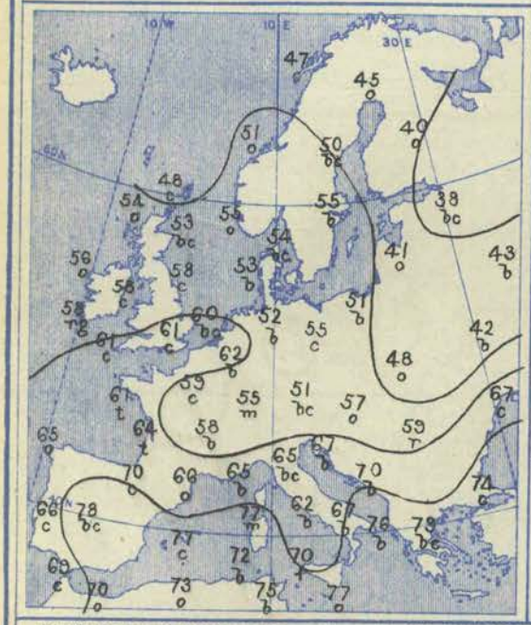
Temperature fallen a little generally. Morning readings highest, 78° at Athens, 77° at Brindisi, and 75° at Barcelona, Malta, and Algiers; above 65° over southern Europe generally, and above 60° on some parts of our own east and south coasts. Lowest, 35° at Haparanda and Uleaborg, 36° at Kuopio, 37° at Archangel, and 39° at Helsingfors and St. Petersburg. Daily maxima below 60° on our extreme north and north-west coasts, but thermometer exceeding 65° in the south of our Islands. Rising to 80° or more in many parts of southern Europe, and reaching 86° at Madrid, and 88° at Biarritz.

Wind light to moderate from the Eastward over Ireland, England, the Netherlands, Germany, and the greater part of France; Southerly or South-Westerly in Spain; Westerly in the extreme south of France; Northerly or North-Westerly in the north-east of Scotland; Southerly in the south of Norway; variable over the northern parts of Scandinavia; Northerly or North-westerly in Russia; Westerly over the greater part of Austria and Italy. Subsequently veering to the South-Eastward or Southward in the west of France; no important change occurring elsewhere.

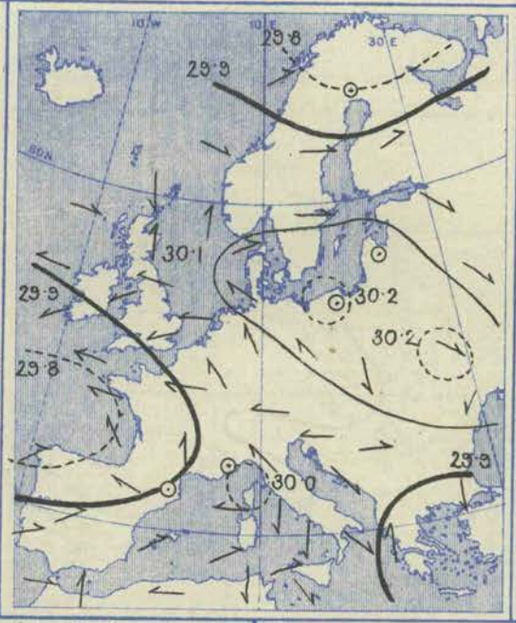
Barometer highest, 30·1 ins. and upwards in a large anticyclone covering Scandinavia, Denmark, the Baltic, the North Sea, and the northern parts of Great Britain. Lowest, 29·6 ins. and less in a large area lying over Russia; 29·8 ins. and less in a shallow depression lying off the north-west of Spain; 30·0 ins. and less in another shallow system over the Netherlands. Spanish depression subsequently moving eastwards, and barometer falling over western Europe generally; disturbance over Netherlands dispersing gradually.

Tuesday, 8th September.

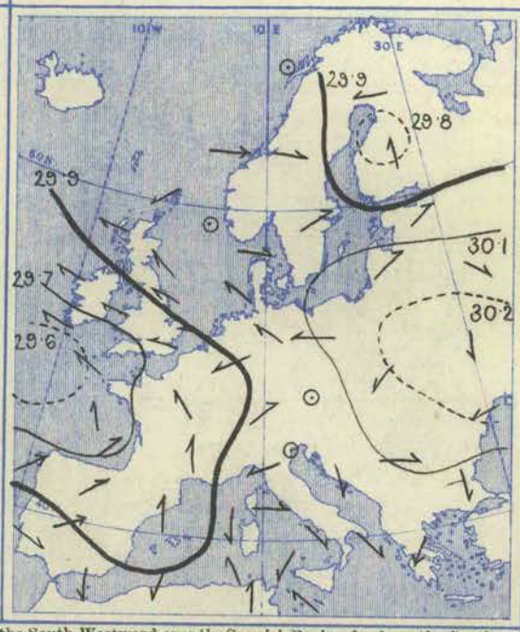
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of the United Kingdom, with rain at most of the south-western stations; thunder reported along the west coasts of France. Fine at some of our east coast stations, and also over the greater part of the Continent, but dull in the extreme north of Europe, as well as in Poland and eastern Austria, with rain at Hermanstadt. Rain falling later in all but the extreme northern parts of the United Kingdom, and also at many of the French, German, and Russian stations; thunderstorms occurring at night over the south and east of England.

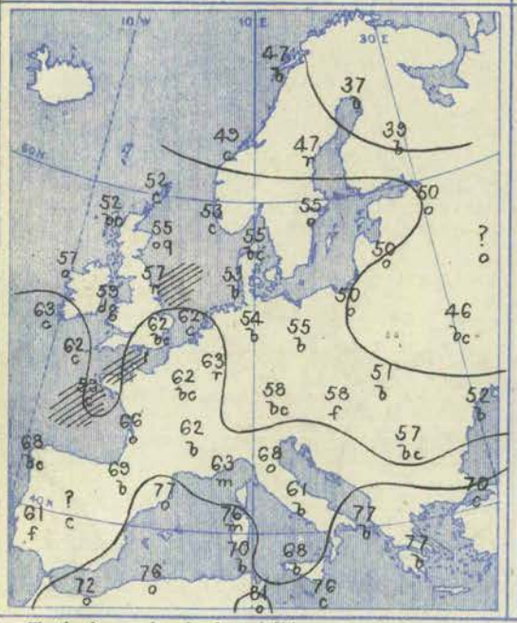
Temperature risen in most of the western and northern countries, but fallen elsewhere. Morning readings highest, 79° at Athens, 78° at Madrid, and 77° at Patras and Malta; above 65° over southern Europe generally, and above 60° in the south of England. Lowest, 38° at St. Petersburg, 40° at Kuopio, 41° at Riga, and 42° at Uleaborg. Rising during day to 65° and upwards at most of the English stations, and to 72° at Jersey. Exceeding 75° in Spain, and exceeding 80° in many parts of France and Italy, the highest reading of all being 86° at Bilbao and Sanguinaire.

Wind light to moderate from the South-Westward over the Spanish Peninsula, from the South-Eastward over France, Germany, and the Netherlands, and from the Eastward over the greater part of our Islands. Southerly in the north-east of Scotland, South-Westerly or Westerly in Scandinavia, North-Westerly in Russia, as well as in most parts of Italy. Subsequently veering to the Southward or South-Westward in the west of France, no important change occurring elsewhere.

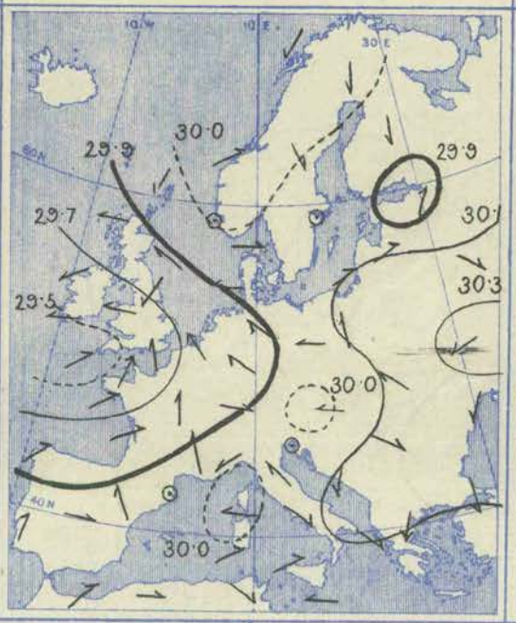
Barometer highest, 30·10 ins. to 30·25 ins. in an anticyclone over Denmark, the Baltic, eastern Germany, and the west and south of Russia. Lowest, 29·7 ins. and less in a depression lying to the south-westward of our Islands; 29·8 ins. and less in another disturbance over Lapland. Depression in south-west subsequently spreading eastwards, and barometer falling over western Europe generally. Low pressure system over Lapland moving southwards over Finland.

Wednesday, 9th September.

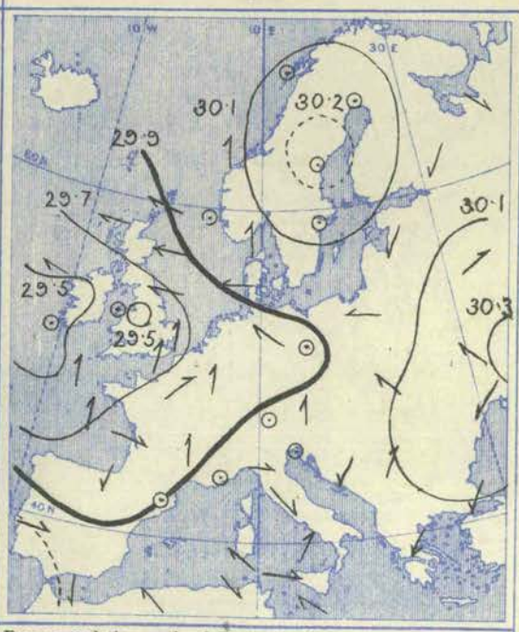
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in most parts of our Islands, with rain at Shields, and passing rain at some of the Channel Stations. Fine in most of the Continental countries, but dull in Sweden, with rain at Hernösand and Karlstad. Rain or passing showers occurring later in nearly all parts of western Europe, as well as in Italy—fall heavy in places. Thunderstorms occurring over the north of England, and thunder or lightning observed at many of our southern and the French stations.

Temperature risen in most of the western countries, fallen in Scandinavia, and also in the south of Russia, changed irregularly elsewhere. Morning readings highest, 81° at Sfax, 77° at Barcelona, Brindisi, and Patras, and 76° at Algiers and Malta; above 65° over southern Europe generally, and also on the extreme south-east coasts of England. Lowest, (1) 37° at Haparanda and Uleaborg, and 39° at Kuopio; (2) 38° at Kharkov, and 44° at Warsaw. Rising during day to 65° and upwards in many parts of the United Kingdom, and reaching 70° or more at some of the English stations; exceeding 75° in the south of France, and exceeding 80° in many parts of Spain and Italy, the highest reading of all being 86° at Palermo.

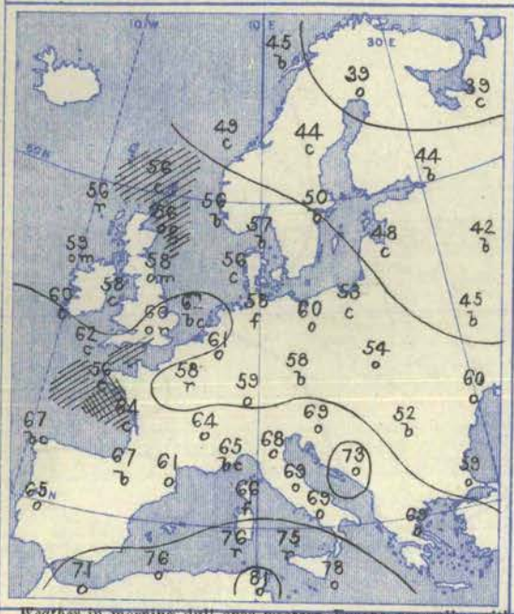
Wind Southerly over Spain, France, and the south of England; light or moderate in force generally, but strong in the Channel Islands; Easterly over Denmark, North Germany, and all the more northern parts of the United Kingdom, and strong in force in the north of Ireland; Westerly or South-Westerly over Scandinavia and northern Russia. Light from the North-Eastward in the south of Russia; variable in Austria; Northerly or North-Westerly in Italy. Subsequently veering to the South-Westward or Westward in France; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone over the south of Russia; 30·0 ins. and upwards in another system lying over the western and northern parts of Scandinavia. Lowest, 29·5 ins. and less in a complex depression lying off our extreme south-west coasts; Depression subsequently moving northwards, but new disturbance beginning to approach the south-west of Ireland in evening.

Thursday, 10th September.

Temperature and Weather.

8 a.m.

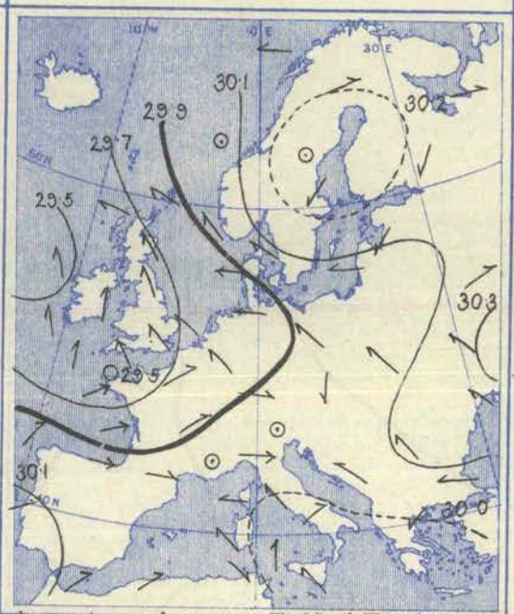


Weather in morning dull over western Europe generally, with showers at many of our own southern stations, and steady rain in the extreme north of Scotland, as well as in London and Paris. Fine over the northern, eastern, and central countries as a whole, and also over the Spanish Peninsula; dull over the Adriatic, Italy, and the neighbouring parts of the Mediterranean, with rain at Pesaro, Palermo, and Cagliari. Rain falling during day in most of the western and central countries—heavily in the south-east of England, the north of France, the Netherlands, and Germany. Thunderstorms occurring in the east and south-east of England, and also in Paris.

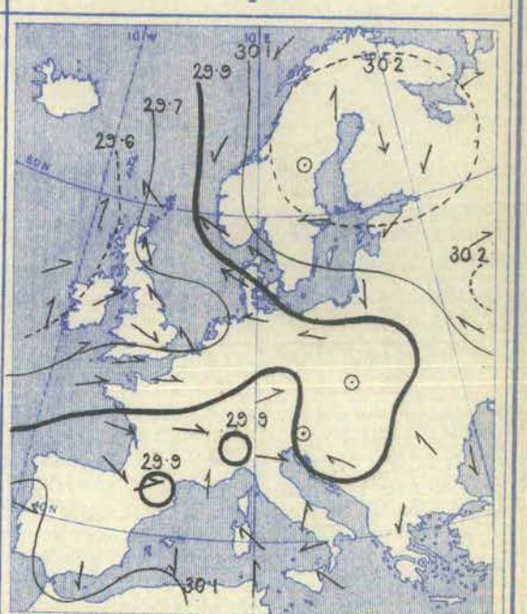
Temperature changed very irregularly. Morning readings highest, 81° at Sfax, 78° at Malta, and 76° at Cagliari and Algiers; above 65° over southern Europe generally. Lowest, 38° at Kharkov, 39° at Archangel and Uleaborg, 40° at Helsingfors, and 42° at Moscow; below 50° in most parts of Russia and Scandinavia. Daily maxima below 65° at many of our own southern stations, but thermometer exceeding 65° in many other parts of the Kingdom, and reaching 71° at York. Exceeding 75° over southern Europe generally, and touching 88° at Barcelona.

Barometer and Wind.

8 a.m.



6 p.m.



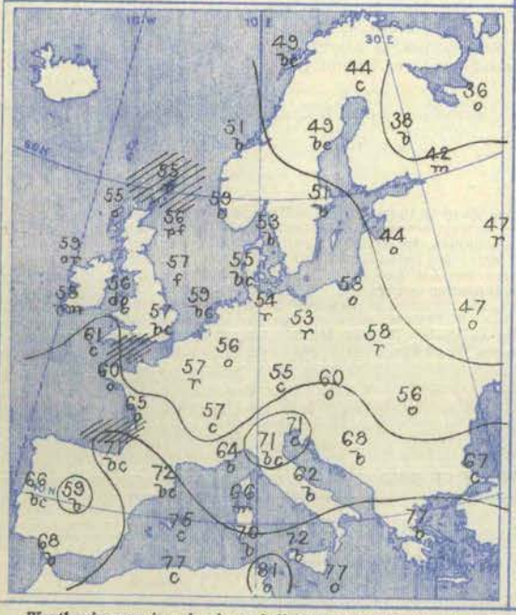
Wind South-Westerly over the greater part of France and Spain, and strong in force over the Bay of Biscay, Southerly or South-Easterly in our Islands; light or moderate in force generally, but strong to a gale on the north-east coasts of Scotland. Easterly over Germany, Denmark, and the south of Scandinavia, and also over Russia, Austria, and Italy. Subsequently veering to the Westward in France, and to the South-Westward in the south of England. (The newspapers report the occurrence of a destructive whirlwind in Paris at about 3 p.m.)

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the south of Russia; 30·2 ins. and upwards in another over Sweden and Finland; 30·1 ins. and upwards in a third lying to the south-west of the Spanish Peninsula. Lowest, 29·5 ins. and less in a large depression lying off the west of Ireland, and also in a small secondary system over Brittany. Main depression subsequently moving out to the north-westward; secondary disturbance advancing eastwards along the Channel, and reaching the east of England by the evening.

Friday, 11th September.

Temperature and Weather.

8 a.m.

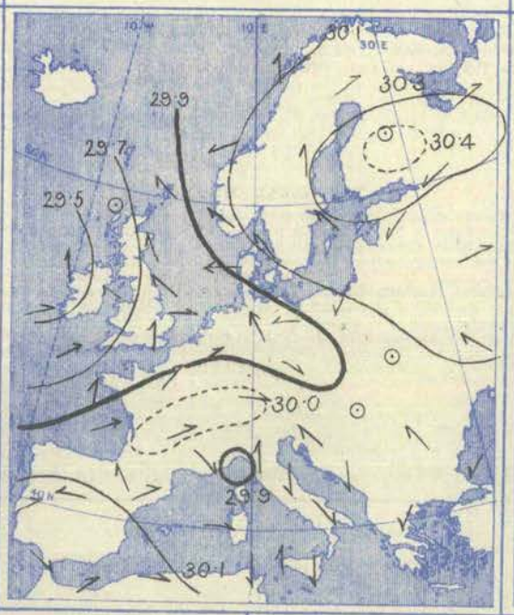


Weather in morning cloudy or dull over western and central Europe generally, with fog at many of the eastern stations in Great Britain, and rain in Ireland and Wales, as well as in Germany and the north of France. Fine over southern Europe as a whole, as well as in Finland, Scandinavia, and Denmark. Rain falling during day in nearly all the western and central countries, heavily in Ireland, and some parts of France, Germany, and Austria. Thunder heard in London and at Cambridge.

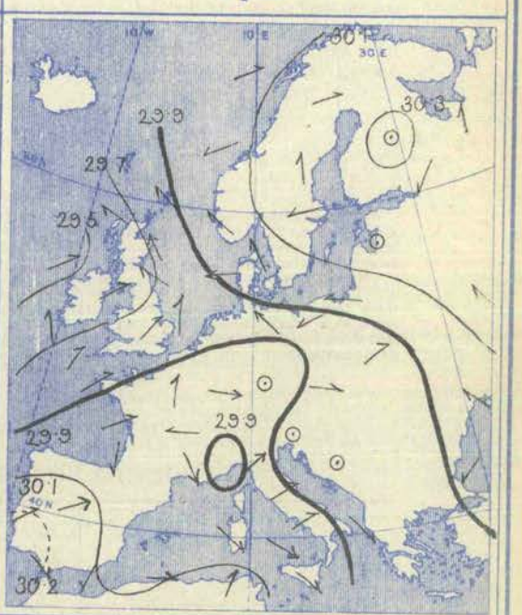
Temperature fallen over western Europe, changed rather irregularly elsewhere. Morning readings highest, 81° at Sfax, 77° at Patras, Malta, and Algiers, and 76° at Tunis; above 65° in most parts of southern Europe. Lowest, 36° at Archangel, 38° at Kuopio, 39° at Kharkov, and 40° at Helsingfors. Rising during day to 65° and upwards in many parts of the United Kingdom, and to 70° at York. Exceeding 75° over southern Europe, and reaching 90° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.

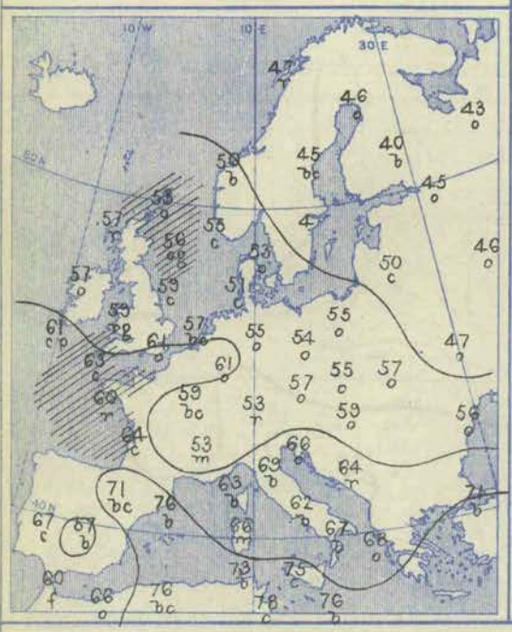


Wind Southerly or South-Westerly over the south of our Islands, the Netherlands, and the greater part of France, and strong in force on our south-west coasts. Easterly over Denmark, north Germany, the Baltic, and the south of Scandinavia, and South-Easterly over the northern parts of our Islands. Westerly over south Germany, but variable over Austria, Italy, and the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards over central Finland, 30·1 ins. and upwards in an anticyclone covering nearly the whole of Russia and Scandinavia, and also in another system over Algeria and the southern parts of Spain. Lowest, 29·5 ins. and less in a depression over Ireland; 29·8 ins. and less in a secondary system over Holland. Irish depression subsequently moving away to the north-westward, but new disturbance beginning to appear off our south-west coasts at night.

Saturday, 12th September.

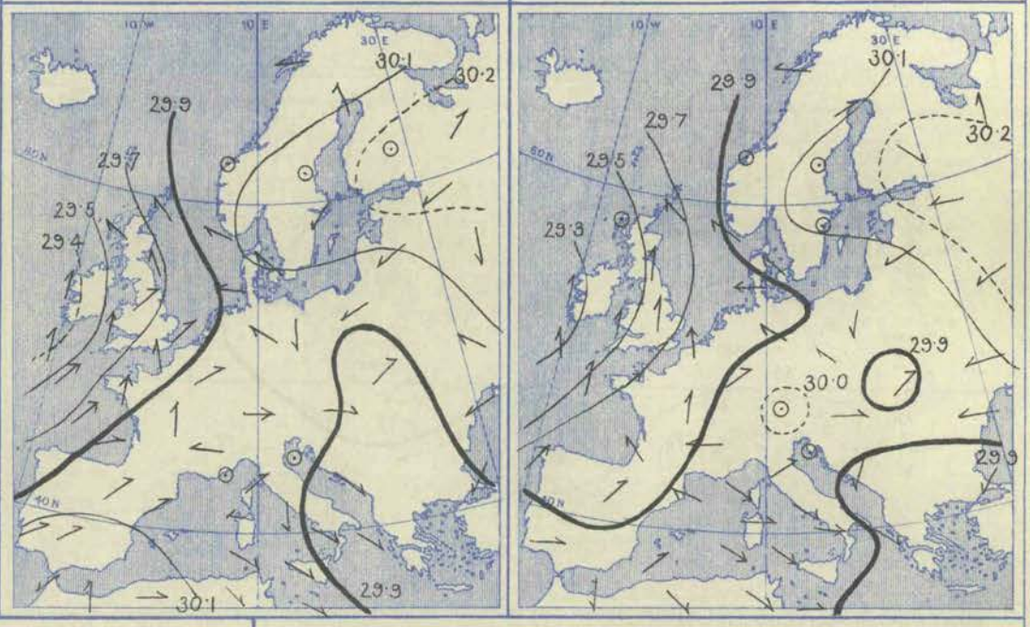
Temperature and Weather. 8 a.m.



Weather in morning dull over western and central Europe generally, with rain or passing showers on many of our own western coasts, as well as at Bodö, Wiesbaden, and Munich. Rain falling later in all the more western and central countries—heavily in the south of our Islands, and the west and north of France, as well as at Corunna. Thunder and lightning occurring in many parts of England and France.

Temperature risen in most parts of the United Kingdom, fallen in Poland, Austria, and Italy, changed irregularly elsewhere. * Morning readings highest, 78° at Sfax, 76° at Barcelona, Malta, and Algiers, and 75° at Palermo; above 65° over southern Europe generally, and above 60° at several of our own southern stations. Lowest, 40° at Kuopio, 43° at Archangel and Kharkov, 44° at Helsingfors, and 45° at Hangö and St. Petersburg. Rising during day to 65° and upwards in many parts of the United Kingdom, and reaching 68° at Scilly. Exceeding 80° at several of the Spanish, Italian, and southern French stations, the highest reading of all being 86° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.



Wind Southerly or South-Easterly in our Islands, and fresh or strong in force on many parts of our western coasts. Light to moderate from the South-Westward over France and the Spanish Peninsula. Easterly over northern Europe generally, but calm over the northern parts of Sweden. Light from the Westward over Austria and south Germany, and from the North-Westward in Italy. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone over northern Russia; 30·1 ins. and upwards in another system over Algeria and the southern and central parts of Spain. Lowest, 29·4 ins. and less in a well marked depression off the west of Ireland; 29·9 ins. and less in a large shallow area extending northward from Greece and southern Italy to Poland. Depression in west subsequently spreading eastwards, and barometer falling over western Europe generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the low pressure systems hitherto noticed over western Europe were moving away to the eastward, a large anticyclone was spreading over Scotland and Scandinavia, and light Northerly or North-Easterly winds were setting in over our Islands, with improving weather in most places. On the 7th and 8th, however, the anticyclone drifted south-eastwards across the North Sea, Denmark, and Germany, while a complex depression spread gradually over our Islands and their immediate neighbourhood from the south-westward, the latter system occasioning thunderstorms and heavy rain in many parts of England and France.

By the morning of the 9th the depression covered a considerable portion of western Europe, and rainy, unsettled weather had become very general. A new anticyclone was, however, in process of development over northern Europe, while a second high pressure area was appearing over Spain. For the remainder of the week these two systems remained fairly stationary, and the distribution of pressure was therefore very complex, the advance of depressions to our west and south-west coasts being accompanied by the formation of secondary disturbances over the south of England and the north of France. The weather in those regions therefore remained very rainy and unsettled, and on the afternoon of the 10th a destructive whirlwind occurred in Paris. In our Islands the wind was as a rule moderate in force, but on the north-east coast of Scotland it increased considerably from the South-Eastward, with a rough sea.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·5	-26·5	1	- 28	SOUTHPORT	10·8	?	12	?
OSWALDKIRK (Yorkshire)	11·6	-15·6	13	- 17	MANCHESTER (Oldham Road)	15.3*	?	17*	?
WORKSOP	7·4	-21·0	8	- 24	COLWYN BAY	13·6	?	15	?
THURCASTON (Leicestershire)	5·8	-24·4	6	- 27	TENBY	26·2*	-11·5	29*	- 12
MARGATE	20·0	-15·5	22	- 17	NEWQUAY	37·3	- 0·5	41	- 1
WESTBOURNE (Sussex)	15·4*	-23·8	17*	- 26	TORQUAY	18·6*	-20·9	21*	- 23
BRIGHTON	17·3	-23·7	19	- 26	ARLEY COTTAGE (County Cavan)	10·2	-16·8	11	- 18
EASTBOURNE	13·6	-25·5	15	- 28	GUERNSEY	29·4*	-16·2	33*	- 16

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 38. | *Third Series.* WEEK ENDING SATURDAY SEPTEMBER 19TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 224.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	39	57·1	46·7	51·6	0 (average)	67	+ 1	0	− 1	1895	+264	305	−320
	1. SCOTLAND, EAST	64	39	59·3	45·0	51·8	0 (average)	69	− 8	0	− 1	2203	+215	408	−243
	2. ENGLAND, N.E.	68	41	62·2	49·1	55·3	1 above	93	+ 3	0	0	2408	+287	327	−222
	3. ENGLAND, EAST	70	45	64·2	51·5	57·5	2 above	109	+10	0	0	2699	+243	388	−229
	4. MIDLAND COUNTIES	69	39	62·7	49·1	55·6	1 above	95	− 2	0	0	2699	+246	372	−247
	5. ENGLAND, SOUTH	69	41	64·6	54·2	59·2	2 above	120	+12	0	0	2973	+312	237	−240
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	43	59·4	49·3	54·1	1 above	85	+ 5	0	0	2368	+297	234	−228
	7. ENGLAND, N.W.	67	45	61·6	51·0	56·0	1 above	98	+ 6	0	0	2627	+367	201	−258
	8. ENGLAND, S.W.	68	41	61·9	53·2	57·4	1 above	108	+ 8	0	0	2897	+411	155	−206
	9. IRELAND, NORTH	65	42	59·8	48·4	53·8	0 (average)	83	+ 3	0	0	2486	+294	162	−233
	10. IRELAND, SOUTH	68	42	62·0	50·4	55·9	1 above	97	+ 4	0	0	2860	+384	89	−210
	—CHANNEL ISLANDS	69	52	65·0	57·0	60·8	2 above	132	+18	0	0	3321	+534	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS (See p. 224.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	25	14 more	175	+ 4	38·5	+ 4·1	23	+ 2	26	+ 2	850	− 58	24	− 1
	1. SCOTLAND, EAST	6	9	2 more	145	+ 5	17·9	− 5·0	33	+ 7	37	+ 7	1080	− 2	30	0
	2. ENGLAND, N.E.	5	4	2 less	123	− 8	13·1	− 4·9	31	+ 4	36	+ 5	1042	− 32	30	0
	3 ENGLAND, EAST	4	5	1 less	123	− 3	15·7*	− 2·2	33	0	38	0	1249	− 32	36	− 1
	4. MIDLAND COUNTIES	6	7	1 more	120	− 4	15·2	− 4·2	28	− 1	32	− 2	1115	− 31	32	− 1
	5. ENGLAND, SOUTH	6	8	2 more	110	−10	14·6	− 4·5	28	− 7	33	− 8	1322	− 20	38	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	19	8 more	152	+ 5	30·4	− 2·5	27	− 1	32	− 1	1144	− 2	32	− 1
	7. ENGLAND, N.W.	6	13	4 more	137	+ 2	22·0	− 1·2	20	−11	23	−15	1083	+ 17	33	0
	8. ENGLAND, S.W.	7	14	5 more	117	−18	17·6	− 8·4	28	− 7	32	− 8	1449	+ 60	42	+ 2
	9. IRELAND, NORTH	7	13	5 more	157	− 3	26·6	+ 0·9	27	+ 2	31	+ 2	1000	− 49	28	− 2
	10. IRELAND, SOUTH	7	11	4 more	134	−10	23·4	− 3·8	37	+ 6	43	+ 8	1174	− 15	34	0
	—CHANNEL ISLANDS	6	9	2 more	126	−16	15·2	− 5·9	33	− 8	38	− 9	1642	+ 38	48	+ 2

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period continued unsettled and rainy very generally, with thunder and lightning at times in nearly all districts. During the earlier days of the week the rain was heaviest at the southern stations, but later on it became heaviest in the north and north-west.

Temperature was slightly above the mean in most districts, but just equalled it in the north and east of Scotland and the north of Ireland. The highest of the maxima were recorded during the early part of the week and ranged from 70° in England E., and 69° in the Channel Islands, England S., and the Midland counties, to 64° in Scotland E. The lowest of the minima, which were registered on the 19th, varied from 39° over Scotland N. and E., and the Midland counties, to 45° in England E. and N.W., and to 52° in the Channel Islands.

Rainfall again exceeded the mean in nearly all districts, the excess being very large in Scotland N., and very considerable in all the western districts. In England N.E. and E., however, there was a slight deficit.

Bright Sunshine was again very deficient over nearly the whole of England, but was rather in excess of the normal over our north-eastern counties, Ireland, and the greater part of Scotland. The percentage of the possible duration ranged from 43 in Ireland S., 38 in the Channel Islands and England E., and 37 to 36 over our north-eastern districts, to 31 in Ireland N., 26 in Scotland N., and 23 in England N.W.

Barometer and Wind.—At the commencement of the week depressions were still prevalent over our western and south-western districts, and the winds varied from between South-West and South-East. As the week progressed, however, the disturbances from the Atlantic took a more northerly course—skirting our extreme western and northern coasts, and the South-Easterly winds disappeared. The systems which appeared towards the end of the period were rather deep, causing the wind to increase considerably in force at all our western and northern stations, and to attain the force of a strong gale on all our north-western and northern coasts on the 17th. Later on the barometer rose decidedly in the south and south-west, the wind veered to the Westward very generally, and the weather became finer.

607 | 90 W. & S., Ltd.
213 70 9 | 96 1896

* This value has been altered slightly owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 223 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	46	55·6	49·1	52·2	+ 1·9	71	0	7	1·62	+0·83	*	*	*	*
	Stornoway	66	42	57·1	45·9	51·2	+ 0·4	64	0	6	2·62	+1·67	28·1	+ 4·3	32	+ 5
	Wick	60	39	57·4	46·4	51·6	+ 0·1	67	0	5	1·24	+0·67	*	*	*	*
	Glencarron S	66	42	56·7	44·5	50·3	- 0·3	58	0	6	3·64	+1·94	*	*	*	*
	Fort Augustus S															
	Fort William S	67	45	58·6	47·6	52·8	- 0·6	76	0	7	3·58	+1·95	17·3	- 4·9	20	- 5
1. SCOTLAND, E.	Nairn	64	42	59·9	44·6	51·9	- 0·6	69	0	6	0·96	+0·38	*	*	*	*
	Aberdeen	63	41	60·1	46·7	53·1	+ 0·5	78	0	6	0·69	+0·01	38·5	+ 9·9	44	+11
	Braemar S	60	39	55·3	42·3	48·5	- 0·8	46	0	6	0·93	+0·15	31·0†	+ 6·0†	35†	+ 7†
	Ochtertyre S	61	40	59·3	43·7	51·1	- 1·5	64	0	5	1·68	+0·90	*	*	*	*
	Leith	64	46	61·6	48·7	54·8	+ 0·4	90	0	3	0·44	-0·07	*	*	*	*
	Marchmont S	60	40	59·4	44·1	51·4	- 0·5	66	0	7	0·62	-0·13	30·3	+ 4·4	35	+ 5
2 ENGLAND, N.E.	Alnwick Castle	63	41	60·3	46.9	53·3	+ 0·6	79	0	7	0·66	+0·02	*	*	*	*
	Durham	64	43	61·6	47·4	54·2	+ 0·6	85	0	5	0·17	-0·39	36·9	+10·2	42	+11
	Shields	63	47	61·7	49·7	55·4	+ 1·5	94	0	4	0·31	-0·24	*	*	*	*
	Scarborough M	65	45	61·9	49·6	55·5	+ 0·7	95	0	4	0·33	-0·27	*	*	*	*
	York	68	46	64·4	48·9	56.3	+ 1·4	100	0	5	0·51	-0·07	? 25·9	? -1·5	? 30	? -2
	Spurn Head	67	49	63·1	52·1	57·3	+ 1·0	107	0	5	0·28	-0·14	*	*	*	*
3. ENGLAND, E.	Hillington M	69	45	64·6	50·1	57·0	+ 1·6	105	0	5	6·58	-0·02	31·8	+1·0	36	0
	Yarmouth	65	48	63·1	52·6	57·6	+ 1·0	109	0	4	0·36	-0 27	*	*	*	*
	Geldeston	68	46	65·4	51·7	58·3	+ 1·9	114	0	4	0·59	+0·03	36·5	+0·5	42	0
	Cambridge	70	45	65·1	51·0	57.7	+ 1·4	110	0	2	0·37	-0·13	33·6	+0·4	39	0
	Rothamsted	65	47	62·8	51·9	57·1	+ 2·0	106	0	4	0·74	+0·15	27·9	-4·4	32	- 6
4. MIDLAND COUNTIES	Harrogate M	64	46	60·7	48·0	54·1	+ 0·1	85	0	7	0·57	?	25·0	?	29	?
	Bawtry (Hesley Hall)	69	46	63·7	48·4	55·7	+ 1·0	96	0	7	0·37	-0·13	*	*	*	*
	Loughborough	68	46	63·7	50·6	56·8	+ 1·0	104	0	7	0·91	+0·33	*	*	*	*
	Stamford (Ketton Hall)	68	43	64·3	49·3	56·4	+ 0·5	101	0	3	0·34	-0·29	*	*	*	*
	Cheadle M	65	43	60·4	47·2	53·3	- 0·2	79	0	7	1·06	+0·36	*	*	*	*
	Shirley (near Solihull)	66	46	62·6	49·2	55·6	+ 0·1	95	0	5	0·55	?	*	*	*	*
	Churchstoke M	66	43	62·4	47.7	54·7	+ 1·3	89	0	7	0·59	-0·04	28·9	-1·4	33	- 2
	Hereford M	69	45	64·5	49·9	56·9	+ 1·8	104	0	4	0·23	-0·39	*	*	*	*
	Cirencester	66	39	61·9	47·9	54·6	+ 0·2	88	0	6	1·45	+0·77	30·3	+ 5·4	35	0
	Oxford	66	46	63·4	52·7	57·8	+ 1·9	111	0	4	0·70	+0·10	28·7	- 3·8	33	- 5
5. ENGLAND, S.	London	68	45	65·4	53·0	58·9	+ 1·6	118	0	5	0·82	+0·30	25·6†	- 2·4	29†	- 4†
	North Foreland	66	47	64·4	54·7	59·3	+ 1·7	121	0	4	0·53	?	*	*	*	*
	Dungeness	69	49	65·9	56·3	60·9	+ 2·9	132	0	5	0·92	+0·32	*	*	*	*
	Hastings (St. Leonards)	67	46	65·1	54·7	59·7	+ 1·9	124	0	6	1·16	+0·53	30·1	- 7·8	35	- 9
	Southampton	68	46	65·1	53·3	58·9	+ 1·2	118	0	5	0·98	+0·32	24·8	-10·5	29	-12
	Hurst Castle	67	49	64·1	56·9	60·3	+ 2·1	128	0	7	0·61	-0·05	*	*	*	*
	Stowell M	65	41	62·5	50·6	56·3	+ 0·3	100	0	7	0 88	+0·08	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	44	59·7	48·9	54·0	+ 1·0	84	0	7	3·32	+1·72	*	*	*	*
	Glasgow	62	45	58·1	48·5	53·1	+ 0·7	78	0	7	1·70	+0·83	19·7	- 3·3	23	- 4
	Ardrossan	62	49	58·6	51·6	54·9	+ 0·8	90	0	7	0.95	+0·15	*	*	*	*
	Glenlee S	62	43	60·7	46·0	53·0	+ 0·4	77	0	7	2·47	+1·33	*	*	*	*
	Douglas (Isle of Man)	61	48	60·0	51·7	55·7	+ 1·9	96	0	7	0·92	+0·10	34·7	+ 1·2	40	+ 1
7. ENGLAND, N.W.	Stonyhurst	64	46	59·5	49·5	54·3	+ 0·4	86	0	6	1·27	+0·13	16·7	-12·5	19	-15
	Blackpool M															
	Manchester (Prestwich)	67	45	62·0	48.3	54·8	+ 0·5	90	0	7	2·76	+1·87	20·0	?	23	?
	Liverpool Obsy. (Bidston)	65	50	62·3	51.4	56·6	+ 0·8	102	0	6	1·29	+0·53	*	*	*	*
	Llandudno M	67	50	63·4	53·6	58·3	+ 1·6	114	0	6	0·59	-0·13	*	*	*	*
	Holyhead	64	49	60·6	52·0	56·1	- 0·2	99	0	6	0·53	-0·19	*	*	*	*
8. ENGLAND, S.W.	Llandovery	65	41	62·1	47·6	54·5	- 0·8	88	0	7	2·31	+1·27	*	*	*	*
	Pembroke	62	52	60·0	55 6	57·7	+ 1·3	110	0	6	1·29	+0·51	30·1	- 3·9	35	- 4
	Clifton	66	48	62·3	54·8	58·4	+ 2·8	115	0	7	1·98	+1·20	*	*	*	*
	Arlington (N. Devon)	65	45	61·1	51·3	56·0	+ 0·7	98	0	7	2·19	+1·11	*	*	*	*
	Cullompton M	68	42	64·9	50·8	57·5	- 1·1	109	0	6	0·65	-0·10	24·7	- 8·1	28	- 9
	Falmouth	66	50	62·7	54·1	58·2	+ 1·2	113	0	6	0·93	-0·07	29.7	- 5·8	34	- 7
	Plymouth	64	53	62·1	56·3	59·1	+ 1·8	120	0	7	0·86	+0·04	24·7	-10·4	28	-13
	Prawle Point	62	50	60·3	55·0	57·5	+ 0·4	109	0	6	0·72	+0·14	*	*	*	*
9. IRELAND, N.	Malin Head	62	48	58·0	50·7	54·2	- 0·1	85	0	6	1·37	?	*	*	*	*
	Londonderry	64	46	60·6	47·5	53·7	- 0·1	82	0	7	1·98	+1·13	*	*	*	*
	Edenfel (Omagh)	61	43	58·0	46·7	52·0	- 0·1	70	0	7	0·95	+0·15	*	*	*	*
	Belmullet	62	51	58·7	53·4	55·9	+ 0·9	97	0	7	2·17	+1·17	*	*	*	*
	Markree Castle	65	44	61·3	47·4	54·0	+ 1·1	84	0	7	1·14	+0·24	30·0	+ 6·1	34	+ 6
	Armagh	64	44	59·7	47·1	53·1	0·0	78	0	6	0·67	+0·04	29·1	+ 2·4	33	+ 2
	Donaghadee	64	44	61·3	47·9	54·3	0·0	86	0	6	0·64	+0·01	*	*	*	*
	Edgeworthstown	65	42	60·7	46·7	53·4	+0·7	80	0	7	1·28	+0·61	*	*	*	*
10. IRELAND, S.	Dublin	68	48	63·0	50·8	56·6	+ 1·6	102	0	6	0·42	-0·10	42·3	+10·1	49	+12
	Parsonstown	66	44	61·4	49·0	54·9	+ 1·1	90	0	7	1·02	+0·32	34·9	+ 5·8	40	+ 7
	Kilkenny	67	42	62·7	47·0	54·5	- 0·9	88	0	7	0·48	-0·15	*	*	*	*
	Roche's Point	65	48	62·7	52·6	57·4	+ 1·6	108	0	6	1·26	+0·41	*	*	*	*
	Valencia	65	47	61·4	52·4	56·7	+ 0·4	103	0	7	2·01	+1·01	34·9	+ 4·6	40	+ 5
	Killarney												*	*	*	*
	Foynes	65	47	60·9	50·3	55·4	+ 0·7	94	0	7	1·35	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	52	63·6	56·0	59·6	+ 1·6	123	0	6	0·58	-0·17	32·5	?	37	?
	Jersey	69	55	66·4	58·0	62·0	+ 1·9	140	0	6	1·22	+0·52	30·7	-11·4	35	-14

Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

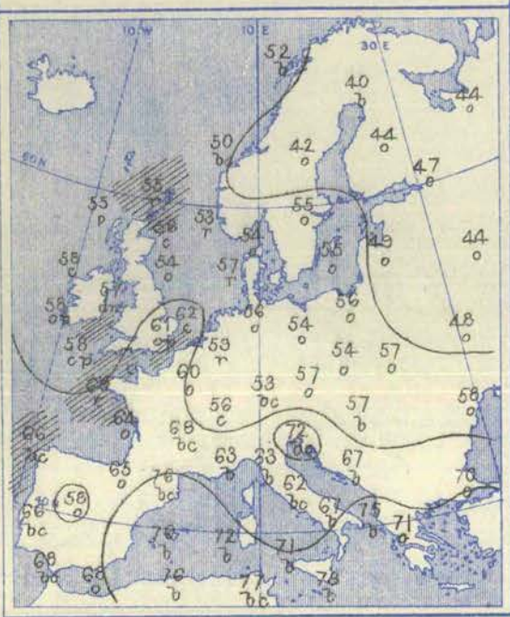
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 13th September.

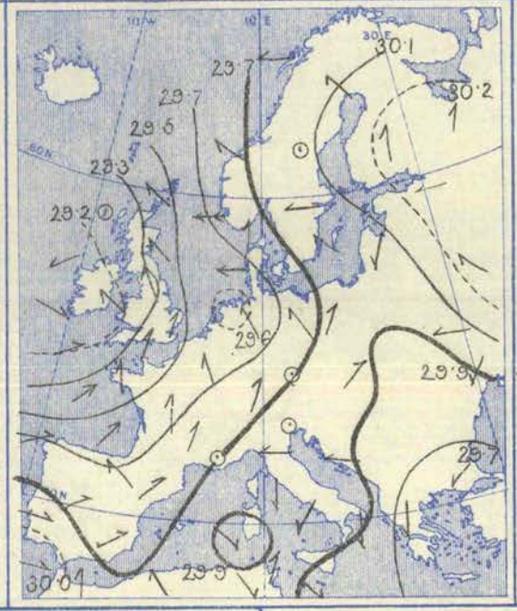
Temperature and Weather.

8 a.m.

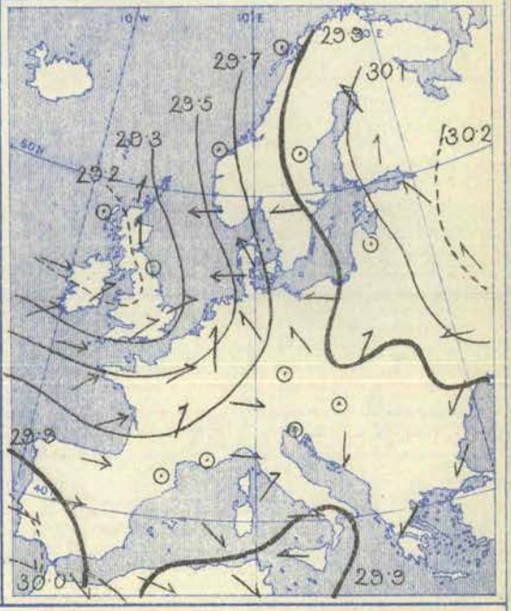


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, Algeria, and the southern parts of Spain; cloudy, showery, and very unsettled over the British Islands and north-western Europe, very dull and gloomy over Germany. Rain falling later over all the north-western countries, but especially over Ireland, England, and the west of France—the falls, however, not exceeding 0·6 in. at any station; thunder and lightning reported in the north and east of England, as well as over the inland parts of the south of France.

Temperature in morning highest, 77° at Sfax, 76° at Algiers, Palma, and Barcelona; 63° to 68° over the southern parts of France, 63° at Jersey and on the Kent coast. Lowest, 40° to 44° over Finland and the north of Russia, 42° at Hernösand, 47° at Kharkov, 50° at Breslau, but much above 50° all over the British Islands. Rising later to between 60° and 68° over the British Islands, to 70° at Munich, 79° at Lyons and Toulouse, 80° at Rome, 82° at Palermo, and 95° in several parts of Algeria.

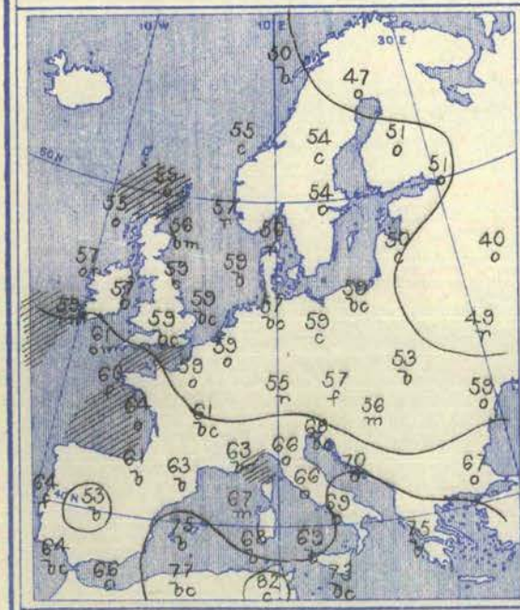
Wind (1) light and anticyclonic over Russia, central and south-eastern Europe; (2) cyclonic and complex over the north-western countries—South-Westerly to Southerly over France, Westerly over the south of Ireland, Southerly and South-Easterly over Great Britain, Easterly over Norway and at Fanö, South-Easterly over Finland. Becoming Westerly over the south of England and north of France later, and blowing very strongly; blowing a severe gale from East at Skudesnaes.

Barometer (1) highest, 30·2 ins. and more to 30·0 ins. over Finland, northern and central Russia; (2) 30·0 ins. and more over the south-west of Spain. Lowest, 29·1 ins. to 29·2 ins. in a complex depression over Ireland, and below 29·3 ins. over Scotland, Wales, and the west of England generally—distribution very complex; below 29·6 ins. near the mouth of the Elbe. Depression in west moving northwards later, and barometer rising over Ireland and the south-west of England, falling over northern Europe.

Monday, 14th September.

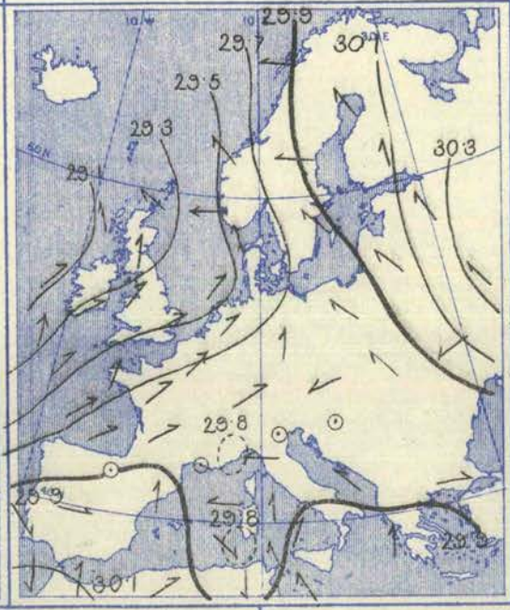
Temperature and Weather.

8 a.m.

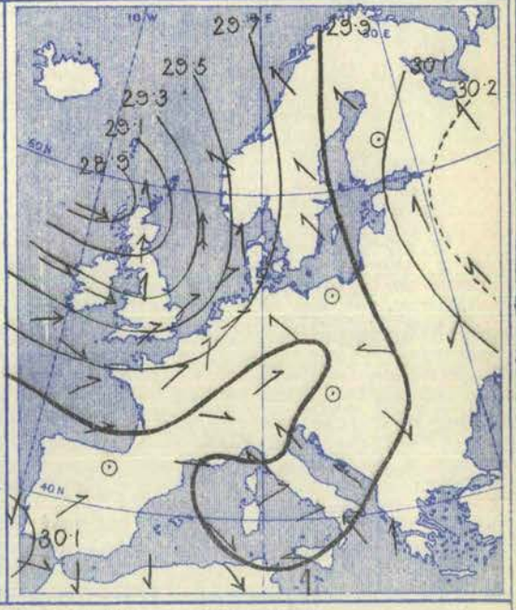


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-western Europe and the Mediterranean, cloudy or overcast almost everywhere else; very unsettled over the British Islands and their neighbourhood, with rain in the west of Ireland and at Lorient, as well as at Le Mans, Munich, and Skudesnaes. Considerable falls of rain later in almost all parts of the British Islands, many parts of France and north-western Europe; largest falls, 1·2 ins. at Faerder, 0·6 in. at Lorient, 0·8 in. at Valencia, 0·5 at Stornoway and Sumburgh Head; lightning seen at Aberdeen at night.

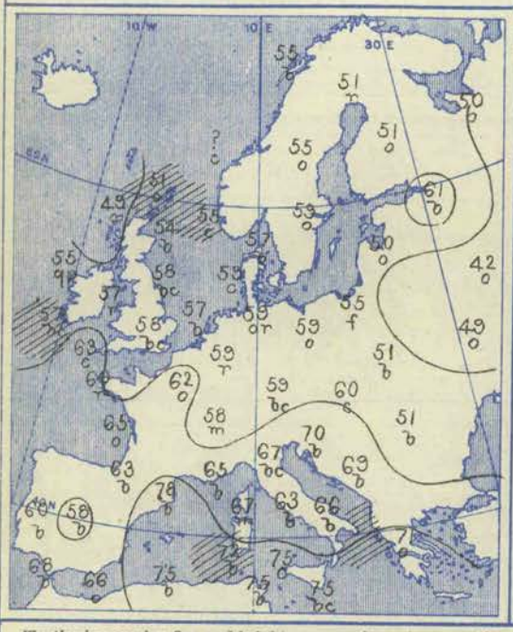
Temperature risen decidedly over Sweden. Morning readings highest, 82° at Sfax, 77° at Algiers, 75° at Patras; exceeding 60° on the western and southern coasts of Europe generally, 63° at Hurst Castle, 61° at Scilly. Lowest, (1) 40° at Moscow, 47° at Uleaborg, 50° at Riga, 51° at St. Petersburg and also at Nairn, 54° at York; (2) 50° at Cracow, 51° at Warsaw. Rising later to between 63° and 67° in many parts of our Islands, to 68° at Berlin, 77° at Biarritz, and to 82° at Nice, 85° at Perpignan, 93° at Palermo, and 100° at Sfax.

Wind South-Westerly (South to West) over the British Islands and France, but Easterly over Scandinavia and blowing strongly in several places; South-Easterly, light, over the Baltic. Very light and anticyclonic over Russia, light and variable over southern Europe and the Mediterranean. Shifting to West on our western coasts later, and blowing very strongly—a gale in places, and blowing very hard from South at Sfax and at Skudesnaes.

Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over Russia; (2) 30·0 ins. and more over the southern half of the Iberian Peninsula. Lowest, below 29·2 ins. off the north-western coasts of our Islands. Falling to 29·0 ins. and less later at Stornoway, but subsequently recovering quickly over our western districts and in France. Rise spreading eastwards and northwards still later.

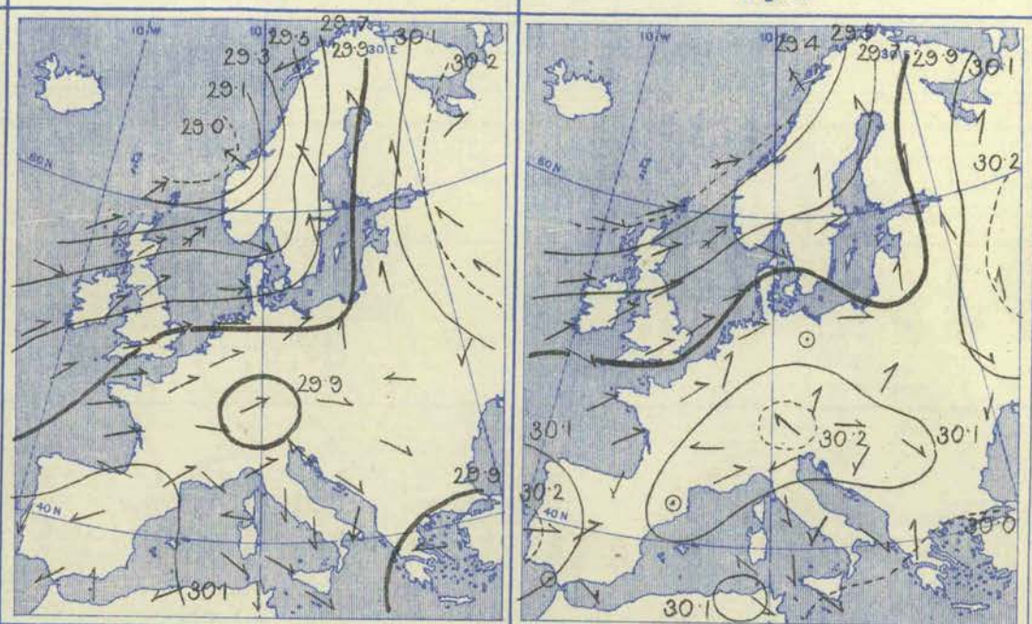
Tuesday, 15th September.

Temperature and Weather. 8 a.m.



Weather in morning fine and bright over south-western, southern, and south-eastern Europe, as well as in many parts of the British Islands; showery at several of our western and northern stations, as well as over the north of France, Belgium, and Scandinavia. Rain falling later over nearly the whole of our Islands and their neighbourhood—heavily at Fanö and Cape Gris Nez, but in moderate quantity on some parts of our south and west coasts, and in Holland; thunder and lightning occurring at Ardrossan and Roche's Point.
Temperature showing no decided change. Morning readings highest, 79° at Sfax, 75° at Algiers, 71° at Brindisi and the Greek stations; 65° to 60° along the west coast of France, 63° at Scilly, 62° at Hurst Castle. Lowest, (1) 49° at Stornoway, 51° at Sumburgh Head and Nairn, 53° at Parsonstown, 54° at York; (2) 42° at Moscow, 47° at Kharkov, 49° at Kiev. Rising later to between 65° and 70° over England, to 71° at Paris, 76° at Lyons, 81° at Nice, 86° at Palermo, 87° at Perpignan, 95° at Tunis, and 104° at Biskra (Algeria).

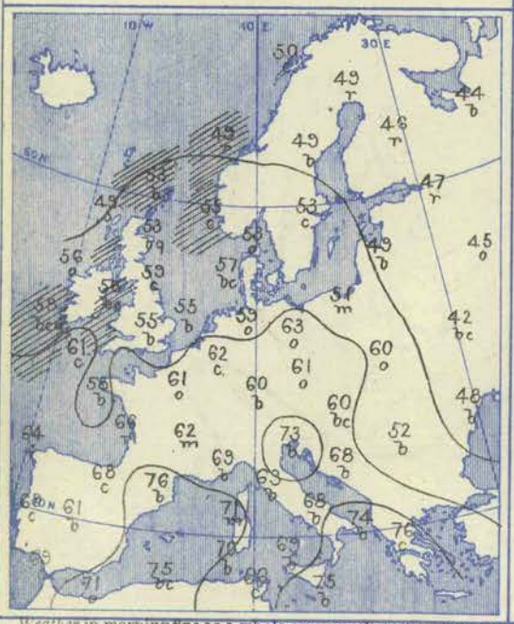
Barometer and Wind. 8 a.m. and 6 p.m.



Wind (1) cyclonic from West and South-West over Ireland and Scotland, and from between South-West and South-East over Scandinavia, and blowing a gale at some of the Norwegian stations; very light and anticyclonic over the southern and eastern countries of Europe; very light and variable over the Mediterranean. Very little change later beyond a shift of wind to the Westward over the southern parts of England and the English Channel, and a shift to West-South-West, a strong gale, at Christiansund.
Barometer highest, 30·2 ins. and more over the northern half of Russia, and exceeding 30·0 ins. over the whole of south-western, southern, and eastern Europe. Lowest, below 29·0 ins. in a well-marked depression having its central area off the west of Norway. Northern depression moving north-eastwards later, while a shallow secondary moved eastwards over England.

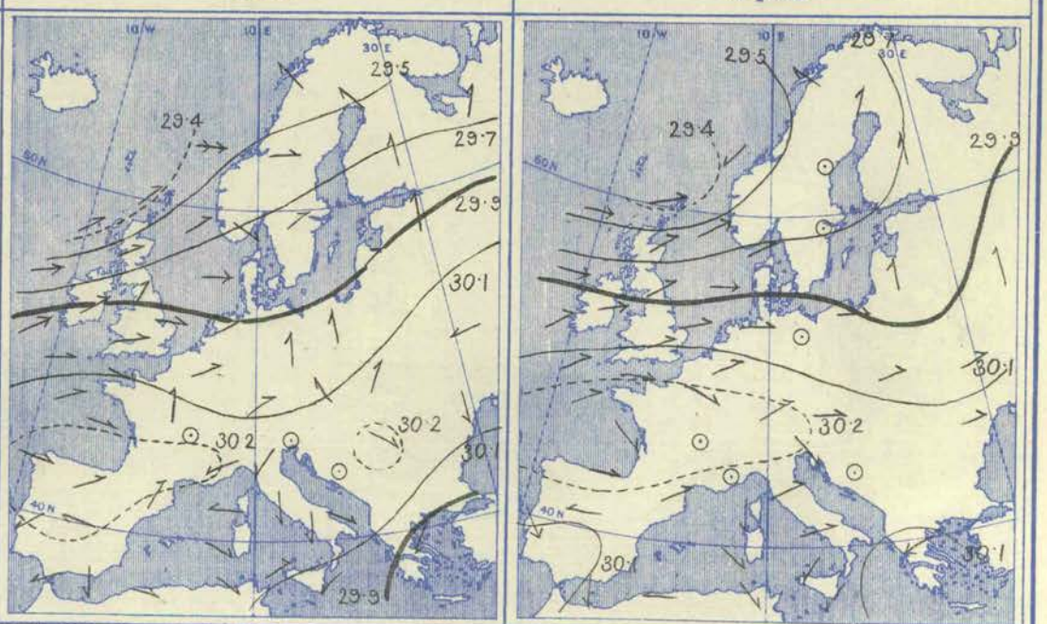
Wednesday, 16th September.

Temperature and Weather. 8 a.m.



Weather in morning fine as a whole over south-eastern, southern, and western Europe, including the greater part of our Islands, dull and rainy, however, in the extreme north and north-west, as well as (locally) at several stations over continental Europe—foggy at Corunna. Rain falling later over the greater part of the British Islands, north-western and northern Europe—amounts largest 0·4 in. at Belmullet and Valencia, 0·6 in. at Roche's Point but much larger over Finland—1·1 ins. at Hangö. Thunder and lightning observed over the greater part of Scotland.
Temperature fallen over northern Europe, risen over Germany and Hungary. Morning readings highest, 76° at Patras and Barcelona, 75° at Algiers and Malta, and exceeding 60° at the stations in southern Europe generally, 63° at Madrid, 62° at Jersey, 61° at Scilly. Lowest (1) 42° to 47° over Russia generally; (2) 49° at Uleaborg, Christiansund, and Stornoway, 50° at Bodö and Nairn, 53° at York. Rising later to between 63° and 68° over England, 70° at Paris, 72° at Wiesbaden, 82° at Nice, 86° at Lisbon and Palermo, 90° at Sfax, and 107° at Biskra.

Barometer and Wind. 8 a.m. and 6 p.m.

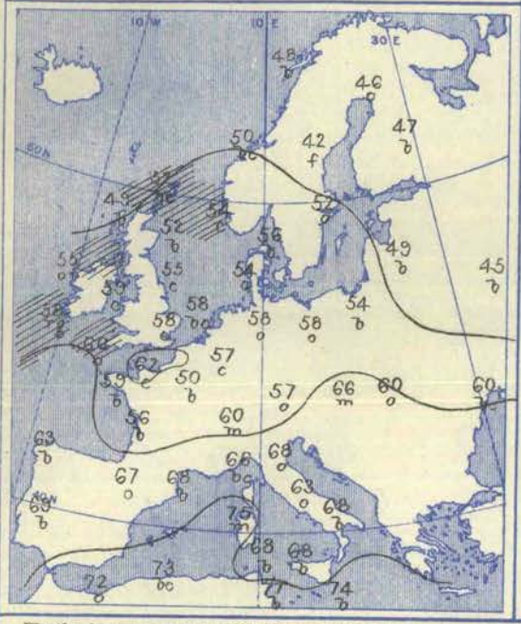


Wind very light and anticyclonic over south-western, southern, and eastern Europe, South-Westerly and cyclonic over the British Islands and North Sea, and the greater part of Sweden and Norway, but Easterly over Lapland. Hardly any change during the day.

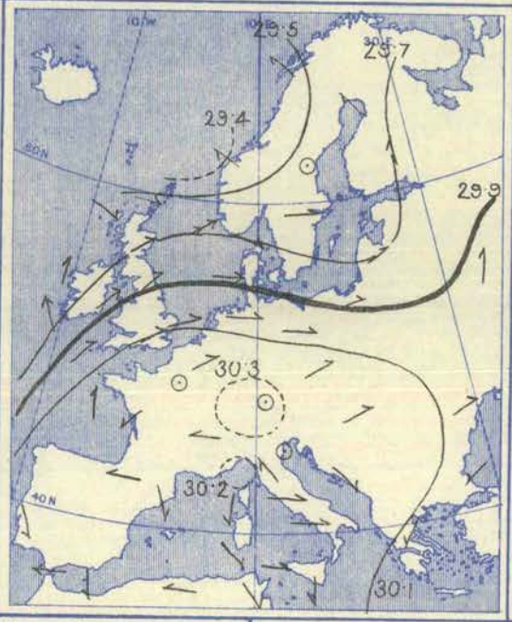
Barometer highest, 30·2 ins. and more over the north of Spain and south-west of France, and at Hermanstadt, and exceeding 30.0 ins. over southern and central Europe generally, as well as over the southern counties of England. Rising over the British Islands and western Europe during the day, but rise ceasing at night.

Thursday, 17th September.

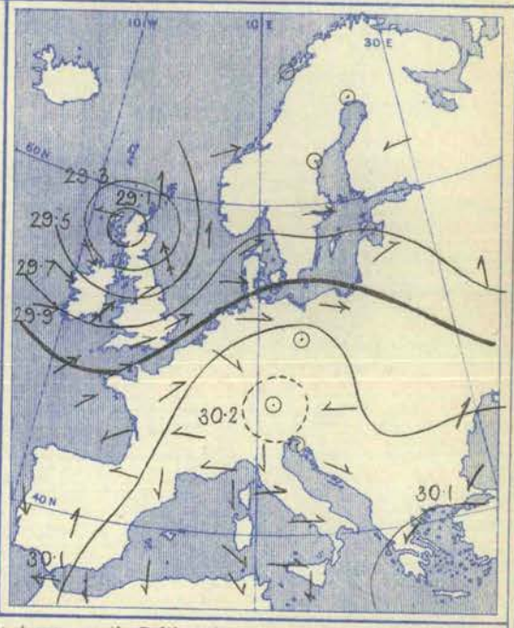
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, southern and eastern Europe, as well as in many parts of Finland, Scandinavia, and Scotland; cloudy or overcast elsewhere, very rainy and unsettled in Ireland. Rain falling later in all parts of the United Kingdom and neighbourhood—the amounts being large on some parts of our northern and south-western coasts, and considerable in Holland and at Oxö. Aurora seen at Aberdeen at night.

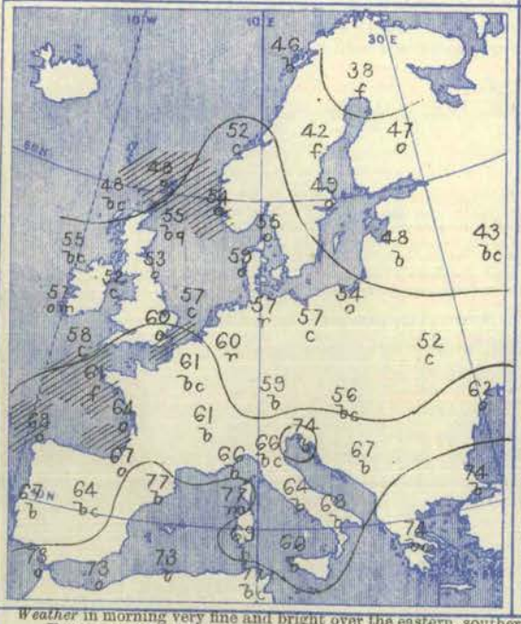
Temperature risen quickly over central Europe and the south of Russia. Morning readings highest, 79° at Patras, 77° at Sfax, 73° at Algiers; exceeding 60° at the Mediterranean stations generally, as well as in the south of Russia, and on the shores of the English Channel. Lowest, 45° at Moscow, 46° at Uleaborg, 48° at Hangö and Bodö, 49° at Stornoway, and 50° to 52° in the extreme north of Scotland and Ireland. Rising later to between 63° and 68° over the greater part of our Islands, to 72° at Paris, 79° at Nice, 86° at Palermo, and 88° at Biarritz.

Wind (1) Westerly, moderate to strong, over the Baltic and eastern shores of the North Sea, but Easterly, light, over Lapland; (2) South-Westerly to Southerly over the British Islands, and becoming strong at the western stations; (3) light and anticyclonic over southern and central Europe. Increasing subsequently to a strong gale from South-South-West and North-West on all our north-western and northern coasts, and blowing a "whole gale" at Wick.

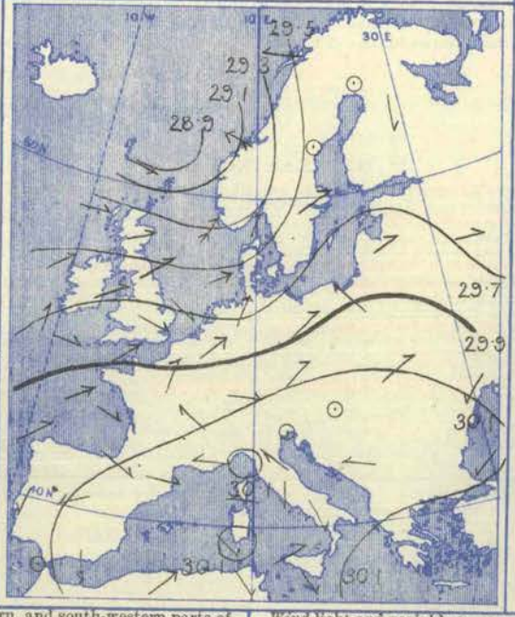
Barometer highest, 30·3 ins. and more to 30·1 ins. over Spain, France, Germany, and south-eastern Europe. Lowest, 29·4 ins. and less in a depression off the west of Norway, and below 29·6 ins. off the north-west of Ireland. Barometer falling rapidly in latter district. A deep and well-formed depression advancing to Scotland from the south-westward later, where barometer fell to below 29·0 ins.

Friday, 18th September.

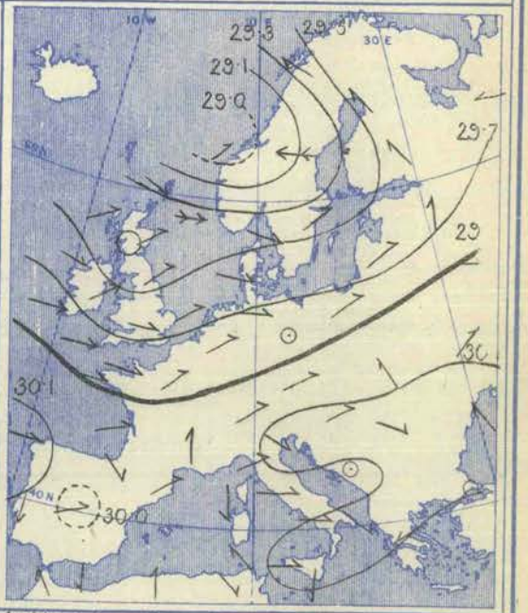
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine and bright over the eastern, southern, and south-western parts of Europe and the Mediterranean, and temporarily fair in the north; very changeable and unsettled over the British Isles, the north of France, and all countries lying on the eastern side of the North Sea. Rain falling in many places, and general appearance unsettled. Rain later in all parts of our Islands, western Europe, and north Germany—amounts largest (1·1 ins. to 0·7 in.) over parts of France and Belgium, and western Germany; lightning seen at Spurn Head.

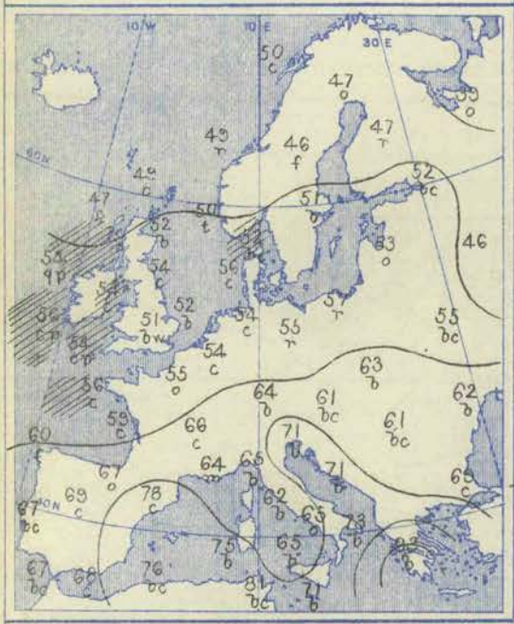
Temperature in morning highest, 77° at Sfax and Barcelona, and exceeding 70° at several other of the most southern stations, 64° at Jersey, 62° at Hurst Castle, Dungeness, and the Helder, 60° in London. Lowest, (1) 38° at Haparanda, 42° at Hernösand, 43° at Moscow; (2) 48° at Sumburgh Head and Stornoway, 49° at Parsonstown, 52° at Loughborough. Not exceeding 65° later at any of the stations in Ireland and England, but rising to 69° at Paris, 73° at Wiesbaden, 77° at Nice, 82° at Lyons, Palermo, and Algiers, and 91° at Sfax. Falling rather decidedly over England at night.

Wind light and variable (anticyclonic) over the southern and eastern countries, much stronger and cyclonic in the north and north-west; (1) South-Westerly and Westerly moderate over Scotland, West-North-Westerly, a moderate gale, at Sumburgh Head, Southerly to East-South-Easterly, a fresh to very strong gale, on the Norwegian coast, Southerly strong on the eastern side of the North Sea. In Ireland the wind, after blowing strongly from West-North-West, had backed to South. Gales in north moderating later, but strong breezes again felt in the west and north-west of our Islands.

Barometer highest, 30·1 ins. and more to 30·0 ins. over all the southern and south-eastern countries of Europe and the Mediterranean, and exceeding 29·8 ins. even over the Baltic Provinces of Russia. Lowest, below 29·0 ins. in a depression lying a little to the northward of the Shetland Islands, and apparently below 29·6 ins. over the north of Russia. Gradients very steep over the Shetlands and north of Scandinavia. Rising quickly over the Shetland Isles later, changing irregularly elsewhere. Well-marked secondary moving over Scotland from the south-westward.

Saturday, 19th September.

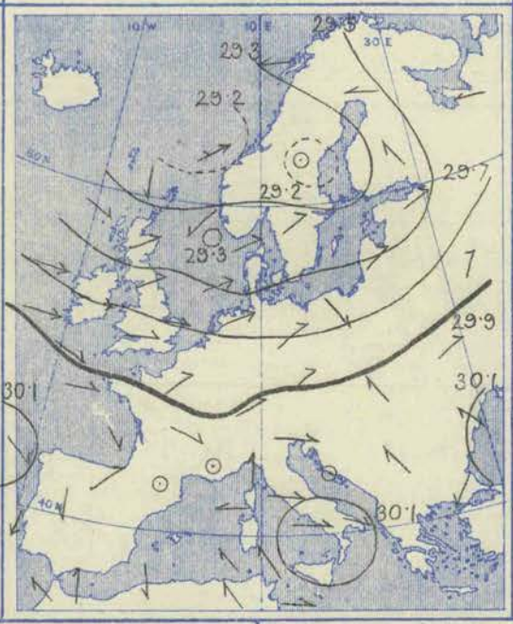
Temperature and Weather. 8 a.m.

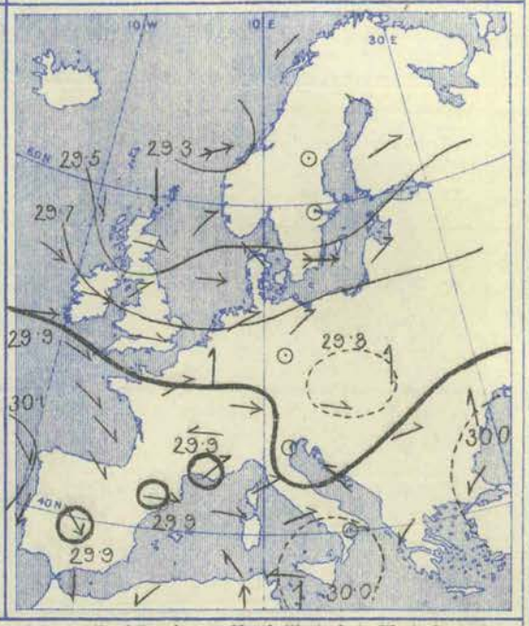


Weather in morning fine and bright over south-western, southern, and south-eastern Europe, and temporarily so in several parts of the British Isles, but unsettled over the north-western and northern countries as a whole, with rain in several places. Much rain later in the west of Norway, and over the southern half of France and south Germany. Showers in all the western and northern parts of our Islands (heaviest in the north), thunder and lightning at Fanö and on the south-east coast of England.

Temperature in morning highest, 93° at Patras, 81° at Sfax, 78° at Barcelona, and above 70° on the southern shores of the Mediterranean generally; 67° to 60° over the southern parts of France and Germany, 60° at Jersey. Lowest, (1) 33° at Archangel, 46° at Moscow, 47° at Ulealborg and Haparanda; (2) 47° at Stornoway, 48° to 49° over the north-east of Scotland, 50° at Malin Head. Rising later to between 78° and 70° in the south and west of France, and to between 65° and 60° over England, but not touching 60° over Scotland and the north of Ireland.

Barometer and Wind. 8 a.m. 6 p.m.





Wind (1) Easterly over Lapland and the north of Russia; (2) North-Westerly to Westerly, and very fresh, over the British Islands, South-Westerly, moderate over Germany, variable and light over the south of Europe, North-Westerly over the Bay of Biscay. Veering a little over our Islands later—little change elsewhere.

Barometer highest, (1) 30·1 ins. and more over the north-west of Spain and adjacent parts of the Atlantic, and exceeding 30·0 ins. over the remainder of the Peninsula and the Bay of Biscay; (2) 29·6 ins. and more over the central and northern parts of Russia. Lowest, (1) below 29·2 ins. in a depression off the west of Norway and in a secondary over the Gulf of Bothnia, and about 29·3 ins. in another secondary off the south-west of Norway; (2) below 30·0 ins. in a small disturbance over the north of the Adriatic. Rising later over Scotland and northern Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of this week pressure was high over Russia and Scandinavia, as well as off the south-west coast of Portugal, and the depression which reached our western coasts continued to develop secondary disturbances over England. Thus, while South-Easterly winds were prevalent over the northern half of the Kingdom, South-Westerly winds were reported in the south, and the rainfall, which was general, was heaviest over France and the southern parts of the United Kingdom. The Russian high-pressure system then moved south-eastwards, while that off the Portuguese coast increased in intensity and spread north-eastwards, until by the 16th and 17th, pressure was highest over south-western, central, and eastern Europe, and lowest in the north-west. The depressions, which now reached the west of Ireland, travelled north-eastwards, causing strong gales from South-East, South-West, and North-West on our north-western and northern coasts. The rains which now fell were heaviest in the west and north, and although showers continued to fall from time to time in the south and east, their rainfall was comparatively small, and the amount of Bright Sunshine in those regions increased considerably.

At the close of the week pressure was giving way over Europe generally, and the appearance over the United Kingdom indicated the advance of further disturbances from the Atlantic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	30·3	+ 6·2	35	+ 7	SOUTHPORT	15·9	?	18	?
OSWALDKIRK (Yorkshire)					MANCHESTER (Oldham Road)	17·9*	?	21*	?
WORKSOP	23·7	- 3·9	27	- 5	COLWYN BAY	28·0	?	32	?
THURCASTON (Leicestershire)	30·7	+ 2·9	35	+ 3	TENBY	32·0*	- 3·2	37*	- 4
MARGATE	28·2	- 4·8	32	- 5	NEWQUAY	30·8	- 4·4	35	- 6
WESTBOURNE (Sussex)	27·5*	- 9·3	32*	- 10	TORQUAY	26·4*	-10·4	30*	- 12
BRIGHTON	32·1	- 5·2	37	- 6	ARLEY COTTAGE (County Cavan)	23·2	- 1·8	27	- 2
EASTBOURNE	29·7	- 8·1	34	- 10	GUERNSEY	37·0*	- 4·0	43*	- 4

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 39. | *Third Series.* | WEEK ENDING SATURDAY SEPTEMBER 26TH, 1896. | [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

DISTRICTS. (See p. 230.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
							For the Week.				From December 29th, 1895.			
	Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°		Day-deg.	Day-deg	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	62	32	53·9	41·5	47·4	3 below	40	−19	1	− 1	1936*	+246	306	−221
1. SCOTLAND, EAST	63	31	54·6	41·1	47·5	3 below	42	−24	3	+ 1	2245	+191	411	−242
2. ENGLAND, N.E.	64	34	57 3	41·5	50·6	2 below	60	−21	0	0	2468	+266	327	−222
3. ENGLAND, EAST.	64	35	58·9	45·5	51·9	3 below	69	−20	0	0	2768	+223	388	−229
4. MIDLAND COUNTIES	66	34	58·8	44·7	51·4	2 below	66	−21	0	− 1	2766*	+226	372	−248
5. ENGLAND, SOUTH	66	37	61·1	48·0	54·3	2 below	86	−11	0	0	3059	+301	237	−240
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	61	31	56·2	43·5	49·6	2 below	53	−19	0	0	2421	+278	234	−228
7. ENGLAND, N.W.	65	36	57·8	47·1	52·2	2 below	71	−12	0	0	2398	+355	201	−258
8. ENGLAND, S.W.	65	32	59·1	48·8	53·7	below	82	− 9	0	0	2979	+402	155	−206
9. IRELAND, NORTH	64	34	56·5	45·6	50·7	1 below	61	− 8	0	0	2547	+286	162	−233
10. IRELAND, SOUTH	64	37	59·2	47·9	53·2	1 below	78	− 2	0	− 1	2938	+382	89	−211
—CHANNEL ISLANDS	65	42	61·7	52·1	56·7	1 below	103	− 3	0	0	3424	+531	39	−109

Rainfall. Bright Sunshine.

DISTRICTS (See p. 230.)	Rainfall. For the Week.			Rainfall. From December 29th, 1895.				Bright Sunshine. For the Week.				Bright Sunshine. From December 29th, 1895.			
	Number of Rainy Days	Total Fall.	More or less than the mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	6	19	8 more	181	+ 5	40·4	+ 4·8	24	+ 4	28	+ 4	871*	− 57	24	− 1
1. SCOTLAND, EAST	6	14	7 more	151	+ 7	19·3	− 4·3	17	− 7	21	− 8	1097	− 9	30	0
2. ENGLAND, N.E.	5	12	6 more	128	− 6	14·3	− 4·3	17	− 8	21	−10	1059	− 40	29	− 1
3 ENGLAND, EAST.	6	14	7 more	129	− 1	17·1	− 1·4	26	− 5	31	− 6	1275	− 36	36	− 1
4. MIDLAND COUNTIES	6	16	9 more	126	− 2	16·8	− 3·3	20	− 5	24	− 7	1135	− 36	32	− 1
5. ENGLAND, SOUTH	6	20	13 more	116	− 7	16·6	− 3·2	30	− 2	36	− 3	1352	− 23	38	− 1
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	6	22	11 more	158	+ 7	32·6	− 1·4	19	− 7	23	− 9	1163	− 9	32	0
7. ENGLAND, N.W.	6	21	12 more	143	+ 4	24·1	0·0	14	−12	17	−16	1097	+ 5	33	0
8. ENGLAND, S.W.	6	24	15 more	123	−16	20·0	− 6·9	30	− 2	35	− 3	1479	+ 58	41	+ 1
9. IRELAND, NORTH	7	24	16 more	164	0	29·0	+ 2·5	24	0	29	0	1024	− 49	28	− 2
10. IRELAND, SOUTH	7	20	13 more	141	− 7	25·4	− 2·5	28	− 1	34	− 1	1202	− 16	34	0
—CHANNEL ISLANDS	6	20	11 more	132	−15	17·2	− 4·7	28	−13	34	−16	1670	+ 25	47	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very rough and squally, with frequent and heavy rain in all parts of the Kingdom. Newspapers reported that sleet fell in some parts of Scotland on Saturday.

Temperature was below the mean, the deficit ranging from 1° in some of the western districts to 3° in Scotland N. and E. and England E. The highest of the maxima were recorded, as a rule, on the 22nd, and ranged from 66° in England S. and the Midland Counties to 62° in Scotland N. and to 61° in Scotland W. The lowest of the minima occurred on the 21st, when the thermometer fell to 31° in Scotland E. and W. to 32° in Scotland N. and England S.W., and to between 34° and 37° in nearly all other districts. In the Channel Islands the minimum was not lower than 42°.

Rainfall was much in excess of the mean in all—but especially the western districts. Over all the eastern and north-eastern parts of the Kingdom the fall was about twice, and in the western and southern districts about three times as large as the mean for the time of year.

Bright Sunshine exceeded the mean in Scotland N., and just equalled it in Ireland N.; in all other districts, however, there was a deficiency. The percentage of the possible duration ranged from 36° in England S. and 35° in England S.W., to 21° in Scotland E. and England N.E., and to 17° in England N.W.

Barometer and Wind.—At the commencement of the period the barometer was rising over our Islands, in the rear of some disturbances passing away to the eastward, and the wind was moderate from between North and West. By Monday morning, however, pressure was decreasing very quickly in the west, and during the next few days the centre of a deep depression travelled eastwards over the northern parts of Ireland and England to the North Sea and Denmark. This system was accompanied by severe gales in all districts,—from the South-Westward and Westward in the west and south and from the Eastward in the extreme north. This depression was quickly followed by one still deeper which passed eastwards over Ireland on the night of Thursday, the centre at 8 a.m. on Friday lying over Cheshire, whence it travelled quickly in an East-South-Easterly direction to Germany. This disturbance caused severe gales in most parts of Ireland and England:—at first from the Southward and South-Westward and subsequently from the North-Westward and Northward, and the changes in pressure which it brought about were unusually large and rapid, both at its approach and in its rear.

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* This value has been altered slightly owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 229 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	54	40	51·4	42·9	47·0	− 2·3	35	0	6	2·47	+1·67	*	*	*	*
	Stornoway	55	39	53·9	41·0	47·1	− 2·5	40	3	6	1·72	+0·82	30·5	+ 7·8	36	+ 9
	Wick	62	38	54·9	40·3	47·3	− 3·0	44	5	7	1·63	+1·05	*	*	*	*
	Glencarron Ⓢ	55	?32	?53·1	?38·4	?45·4	−?4·2	?39	?10	6	2·67	+0·90	*	*	*	*
	Fort Augustus Ⓢ	57	32	54·8	41·3	47·7	− 3·7	43	2	6	1·16	+0·22	19·1	+ 2·3	23	+ 3
	Fort William Ⓢ	58	35	55·0	45·2	49·9	− 2·0	55	0	6	2·01	+0·31	21·8	+ 0·1	26	+ 1
1. SCOTLAND, E.	Nairn	58	34	54·3	40·1	46·9	− 4·2	42	5	6	1·35	+0·73	*	*	*	*
	Aberdeen	56	38	53·6	43·1	48·1	− 3·4	43	0	7	1·79	+1·08	23·1	− 2·7	28	− 4
	Braemar Ⓢ	52	31	50·0	38·2	43·8	− 4·0	29	11	6	0·91	+0·16	18·0†	− 5·9†	21†	− 7†
	Ochtertyre Ⓢ	61	34	57·4	40·6	48·6	− 2·7	52	4	5	1·64	+0·80	*	*	*	*
	Leith	63	38	57·7	42·9	49·9	− 3·0	55	0	5	1·06	+0·55	*	*	*	*
	Marchmont Ⓢ	59	37	54·3	41·6	47·7	− 2·9	42	1	7	1·70	+0·92	15·0	− 8·7	18	−11
2 ENGLAND, N.E.	Alnwick Castle	64	38	57·7	41·6	49·3	− 2·2	53	1	5	1·57	+0·87	*	*	*	*
	Durham	60	34	57·3	41·8	49·2	− 2·9	51	1	5	1·24	+0·64	19·0	− 5·2	23	− 7
	Shields	60	37	56·3	44·4	50·1	− 2·5	57	0	4	1·38	+0·84	*	*	*	*
	Scarborough Ⓜ	62	40	56·9	45·9	51·1	− 2·5	64	0	3	0·89	+0·24	*	*	*	*
	York	61	37	58·4	43·9	50·8	− 2·6	62	0	5	1·17	+0·58	14·7	−11·3	18	−13
	Spurn Head	61	47	57·4	49·4	53·2	− 1·7	78	0	6	0·92	+0·44	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	63	35	59·3	45·2	51·9	− 2·2	69	0	6	1·21	+0·59	21·9	−6·9	26	− 9
	Yarmouth	60	43	57·7	47·1	52·2	− 2·8	71	0	5	1·06	+0 38	*	*	*	*
	Geldeston	62	38	60·0	45·5	52·4	− 2·4	73	0	6	1·22	+0·62	27·7	−6·1	33	− 8
	Cambridge	64	37	60·4	44·4	52·0	− 2·6	70	0	5	0·86	+0·34	26·5	−4·1	32	− 5
	Rothamsted	60	36	57·1	45·5	51·0	− 2·6	63	0	7	2·44	+1·79	27·7	−2·3	33	− 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	63	36	57·0	44·0	50·2	− 2·2	57	0	5	1·79	?	11·0	?	13	?
	Bawtry (Hesley Hall)	61	35	58·4	44·1	50·9	− 2·4	62	0	5	0·99	+0·39	*	*	*	*
	Loughborough	64	34	59·7	44·6	51·8	− 2·6	69	0	7	1·16	+0·56	*	*	*	*
	Stamford (Ketton Hall)	64	35	60·6	45·0	52·4	− 1·8	73	0	5	0·94	+0·24	*	*	*	*
	Cheadle Ⓜ	61	39	56·0	44·0	49·7	− 2·4	54	0	7	1·96	+1·28	*	*	*	*
	Shirley (near Solihull)	63	37	59·1	44·7	51·6	− 2·4	67	0	6	2·23	?	*	*	*	*
	Churchstoke Ⓜ	64	36	58·6	43·6	50·7	− 1·3	61	0	7	2·33	+1·65	26·2	− 1·1	31	− 2
	Hereford Ⓜ	63	38	58·7	46·4	52·3	− 1·3	72	0	7	1·33	+0·68	*	*	*	*
	Cirencester	65	?35	59·6	44·3	51·6	− 1·0	67	0	6	1·79	+1·09	23·8	− 3·1	28	− 5
	Oxford	66	40	60·6	46·1	53·0	− 1·4	77	0	6	1·48	+0·83	28·2	− 1·6	34	− 2
5. ENGLAND, S.	London	66	38	61·1	46·1	53·2	− 1·8	78	0	6	1·39	+0·81	27·0†	+ 2·5	32†	+ 1†
	North Foreland	62	44	59 9	48·7	54·0	− 2·5	84	0	5	1·40	?	*	†	*	*
	Dungeness	65	40	63·1	49·1	55·8	− 0·8	97	0	5	2·04	+1·35	*	*	*	*
	Hastings (St. Leonards)	63	44	61·5	47·4	54·1	− 2·2	85	0	6	2·17	+1·46	31·0	− 4·6	37	− 6
	Southampton	65	40	62·2	47·7	54·6	− 1·6	88	0	6	2·59	+1·87	28·5	− 3·2	34	− 5
	Hurst Castle	63	43	61·3	50·7	55·8	− 0·8	97	0	6	2·18	+1·46	*	*	*	*
	Stowell Ⓜ	64	37	58·6	46·6	52·3	− 1·8	72	0	7	2·47	+1·64	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	58	36	56·3	42·4	49·0	− 2·5	49	0	5	2·49	+0·77	*	*	*	*
	Glasgow	56	38	54·4	42·8	48·3	− 2·4	44	0	7	1·53	+0·68	17·1	− 3·5	21	− 5
	Ardrossan	60	40	57·4	44·9	50·9	− 2·0	62	0	5	1·79	+1·01	*	*	*	*
	Glenlee Ⓢ	58	31	55·5	41·3	48·1	− 3·3	43	0	7	2 14	+0·95	*	*	*	*
	Douglas (Isle of Man)	61	37	57·6	46·1	51·6	− 1·0	67	0	6	2·84	+2·04	20·9	−11·0	25	−14
7. ENGLAND, N.W.	Stonyhurst	59	40	55·2	45·7	50·2	− 2·4	57	0	7	3·06	+1·93	14·4	- 13·2	17	−16
	Blackpool Ⓜ	64	42	59·2	47·1	52·9	− 0·9	76	0	6	2·75	+1·85	14·5	−12·0	17	−15
	Manchester (Prestwich)	59	36	57·7	44·9	51·0	− 1·7	63	0	6	2·53	+1·61	13·2	?	16	?
	Liverpool Obsy. (Bidston)	65	44	58·7	47·9	53·0	− 1·3	77	0	7	1·07	+0·24	*	*	*	*
	Llandudno Ⓜ	62	44	58·3	48·9	53·4	− 1·9	80	0	5	1·51	+0·73	*	*	*	*
	Holyhead	60	45	57·7	47·9	52·6	− 2·7	74	0	7	1·83	+1·06	*	*	*	*
8. ENGLAND, S.W.	Llandovery	62	32	58·6	44·3	51·1	− 2·5	64	0	7	2·64	+1·57	*	*	*	*
	Pembroke	60	50	58·1	52·3	55·1	− 0 2	92	0	5	2·08	+1·24	29·7	− 1·3	35	− 2
	Clifton	62	43	58·9	48·7	53·6	− 0·3	81	0	6	2·07	+1·23	*	*	*	*
	Arlington (N. Devon)	61	40	57·9	46·4	51·9	− 2·1	69	0	7	2·90	+1·82	*	*	*	*
	Cullompton Ⓜ	65	38	60·6	47·1	53·5	− 1·4	81	0	7	2·67	+1·85	23·2	− 6·3	28	− 7
	Falmouth	63	48	59·7	51·5	55·4	− 0·6	94	0	5	2·79	+1·72	37·8	+ 4·8	45	+ 6
	Plymouth	63	42	60·0	50·4	55·0	− 0·9	91	0	7	2·39	+1·51	27·6	− 4·4	33	− 6
	Prawle Point	60	47	58·6	49·3	53·7	− 2·5	82	0	7	1·75	+1·08	*	*	*	*
9. IRELAND, N.	Malin Head	59	45	54·7	47·1	50·7	− 2·1	61	0	7	2·71	?	*	*	*	*
	Londonderry	64	40	56·9	44·9	50·6	− 2·1	60	0	7	2·26	+1·38	*	*	*	*
	Edenfel (Omagh)	60	35	55·6	44·4	49·7	− 0·2	54	0	7	2·78	+1·91	*	*	*	*
	Belmullet	60	46	57·0	49·9	53·3	0·0	79	0	6	2·97	+1·96	*	*	*	*
	Markree Castle	62	34	56·7	43·9	50·0	− 1·6	56	0	7	2·73	+1·83	29·9	+ 7·3	36	+ 9
	Armagh	59	37	56·3	43·6	49·7	− 1·9	54	0	7	2·07	+1·45	19·6	− 6·4	23	− 8
	Donaghadee	62	40	58·0	45·1	51·2	− 1·8	64	0	7	1·45	+0·85	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	63	41	57·7	46·5	51·8	− 2·0	69	0	7	1·41	+0·89	34·4	+ 3·6	41	+ 4
	Parsonstown	62	39	58·4	45·7	51·8	− 0·5	69	0	7	2·05	+1·31	23·6	− 4·4	28	− 5
	Kilkenny	62	37	59·7	45·3	52·2	− 1·9	71	0	7	1·67	+1·09	*	*	*	*
	Roche's Point	64	45	60·7	49·9	55·0	+ 0·3	91	0	6	2·27	+1·46	*	*	*	*
	Valencia	61	44	59·3	50·4	54·6	− 0·6	88	0	7	2·17	+1·18	27·2	− 1·5	32	− 3
	Killarney	63	40	59·7	49·0	54·1	− 0·2	85	0	6	2·76	?	*	*	*	*
	Foynes	62	41	58·6	48·2	53·2	− 0·3	78	0	7	1·84	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	42	60·4	50·1	55·0	− 2·0	91	0	5	2·04	+1·19	35·2	?	42	?
	Jersey	65	50	63·0	54·0	58·3	− 0·6	114	0	7	1·88	+1·06	23·4	−14·6	28	−19

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

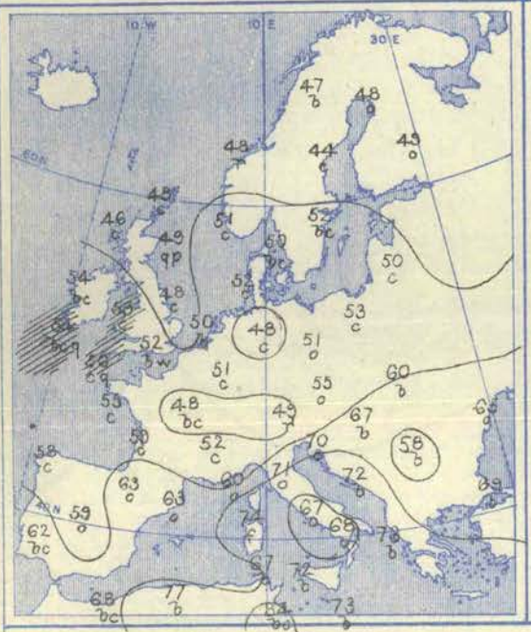
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 20th September.

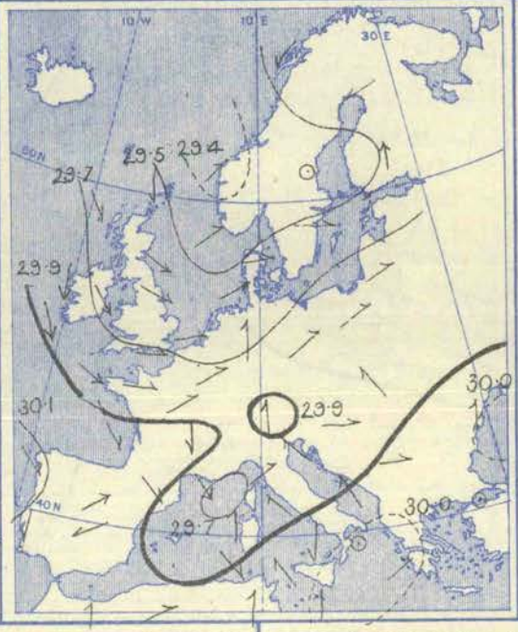
Temperature and Weather.

8 a.m.

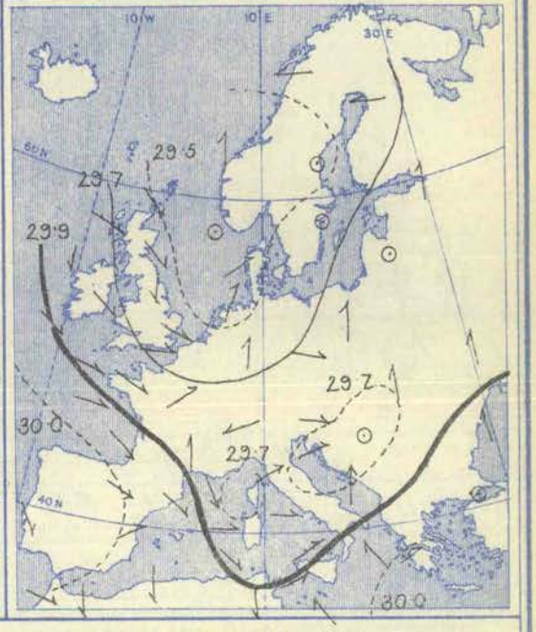


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over north-western and northern Europe generally, but with showers in a few places. Dull in most of the central and southern countries, with rain at Munich, Biarritz, and Florence. Fine and bright in Austria, Greece, and the south of Italy. Showers falling later in nearly all parts of the United Kingdom, with thunder and lightning at many of the English stations, as well as at Lyons. Heavy rain reported in isolated parts of the Continent—as much as 1·7 ins. at Leghorn.

Temperature fallen in most countries, but risen in Italy. Morning readings highest, 84° at Sfax, 77° at Athens, Patras, and Algiers, and 75° at Tunis; above 65° at most of the Mediterranean and Adriatic stations. Lowest, (1) 44° at Hernösand, and 47° at Bodö; (2) 46° at Stornoway, 47° at Nairn, and 48° at Leith and Shields; (3) 47° at Le Mans, and 48° at Paris and Limoges. Rising during day to 60° or a little more at several of our own central and southern stations, but remaining below 55° on our extreme north and north-west coasts. Exceeding 70° in most parts of southern Europe, exceeding 80° over southern Italy, and reaching 91° at Palermo. Ground frost occurring over the inland parts of England at night.

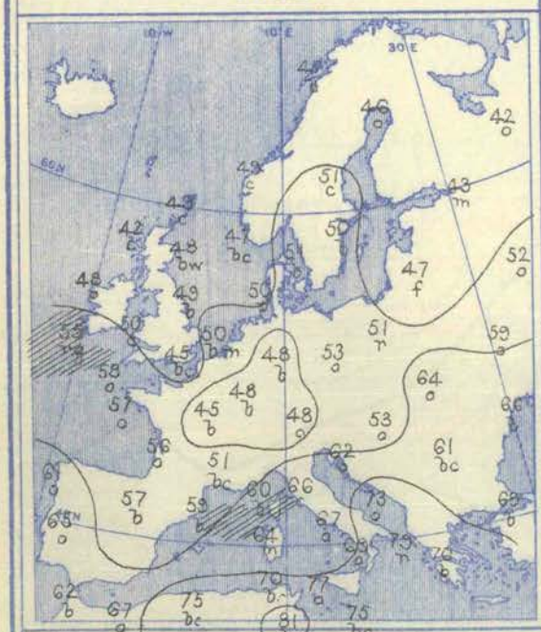
Wind moderate to fresh from the North-Westward in the west and north of our Islands, and also in the west of France. Light to moderate from the Westward over the greater part of England, and from the South-Westward over the Netherlands, North Germany, Denmark, and the south of Scandinavia; Southerly in Finland; Easterly in the north of Scandinavia. Variable over Italy, Austria, and the south of Russia; North-Westerly in the south of France; Northerly over the Spanish Peninsula. Subsequently veering to the North-Westward or Northward in all parts of the United Kingdom; South-Westerly breezes setting in over Italy.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying off the Portuguese coasts; 29·4 ins. and less in a shallow depression over the west of Norway; 29·7 ins. and less in another disturbance over the Gulf of Genoa. Norwegian depression filling up later, and barometer rising over western Europe generally. New, but shallow, disturbance appearing over Austria in evening.

Monday, 21st September.

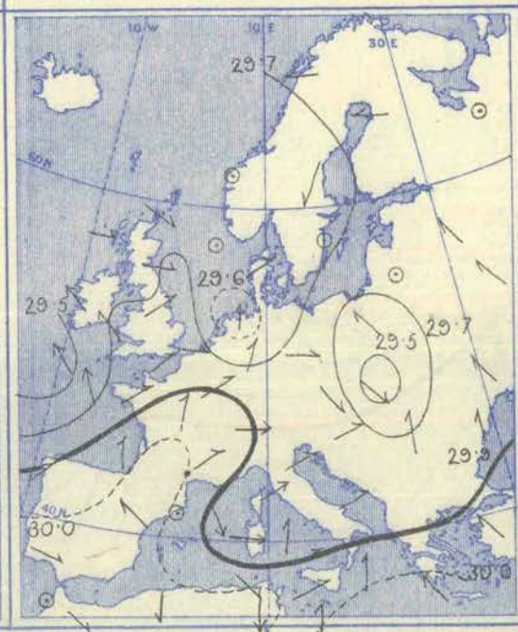
Temperature and Weather.

8 a.m.

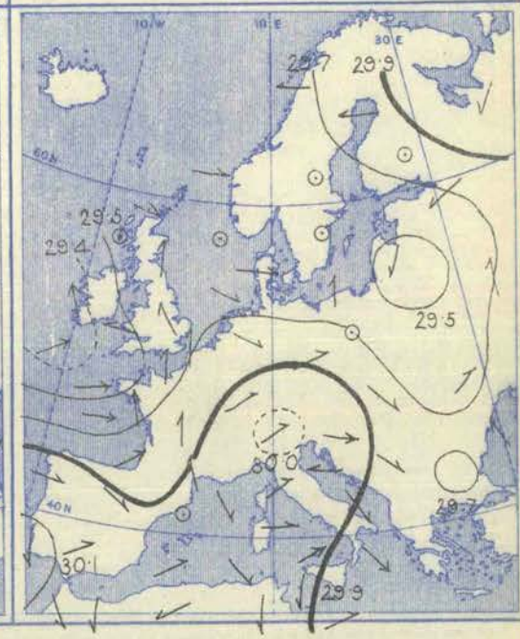


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of western and northern Europe, but dull and rainy over the south of Ireland. Dull also in most of the eastern, central, and southern countries, with rains over Poland and the Baltic Provinces, as well as at Vienna and Brindisi. Rain falling later over nearly the whole of western and northern Europe, heavily at many of our own western and southern stations, and also in the south of France. Lunar halos seen at Stornoway and Roche's Point and lightning at Lyons.

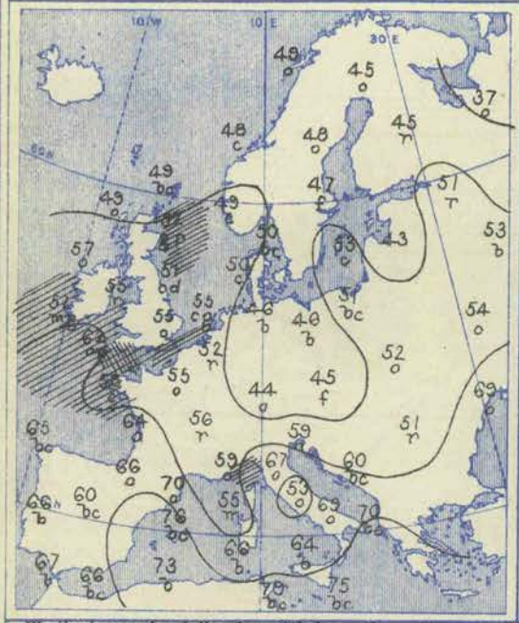
Temperature fallen a little in most places. Morning readings highest, 81° at Sfax, 79° at Brindisi, 77° at Palermo, and 76° at Patras; above 65° at the Mediterranean and Adriatic stations generally. Lowest, (1) 40° at Loughborough, and 42° at Stornoway, Wick, Nairn, York, and Cambridge; (2) 42° at Archangel, and 43° at St. Petersburg. Rising later to 60° or a little above it at most of our central and southern stations; exceeding 70° over southern Europe generally and reaching 84° at Brindisi.

Wind strong from the South-Eastward on our extreme south-west coasts; light or moderate from the Southward over the greater part of England and France. Light from the westward in the north of Scotland; calm in the west of Norway; South-Westerly over Germany, Southerly or South-Easterly in Finland, Easterly in the north of Scandinavia, South-Westerly over Italy and Austria, variable over the Spanish Peninsula. Subsequently shifting to the South-Westward or Westward on our own south-west coasts, veering to the North-Westward over southern Italy; no important change occurring elsewhere.

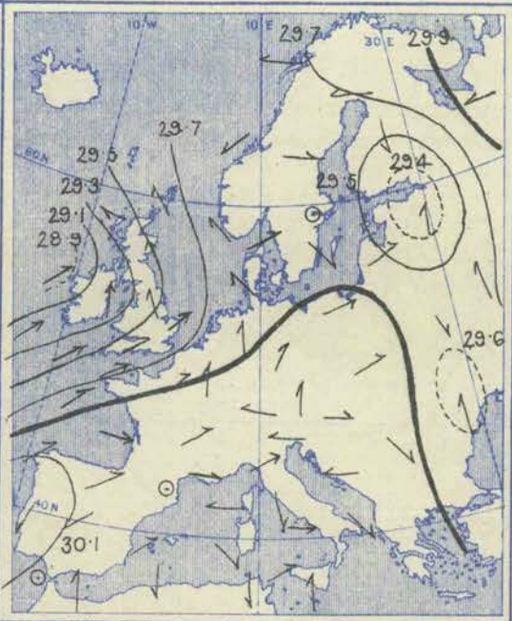
Barometer highest, 30·0 ins. and upward over Algeria, Spain, and the south of France, and also in the south of Russia. Lowest, 29·5 ins. and less in a depression lying off the south-west of Ireland, and also in another disturbance over Poland; 29·6 ins. and less in a shallow system over Holstein. Depression off our south-west coasts subsequently spreading north-eastwards; Polish disturbance moving on to Baltic provinces.

Tuesday, 22nd September.

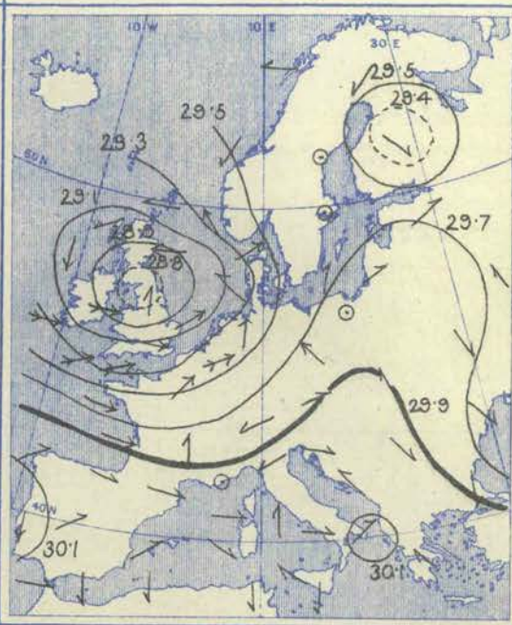
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning dull and unsettled over the greater part of Europe, with rain in the west and south of our Islands, as well as in Finland and in isolated parts of France, Belgium, and Austria; fog reported in the south of Sweden. Fine in some parts of Denmark and north Germany, as well as over the Spanish Peninsula and the south of Italy. Rain falling later over all but the southern parts of Europe—heavily in places. Lightning seen in London in afternoon.

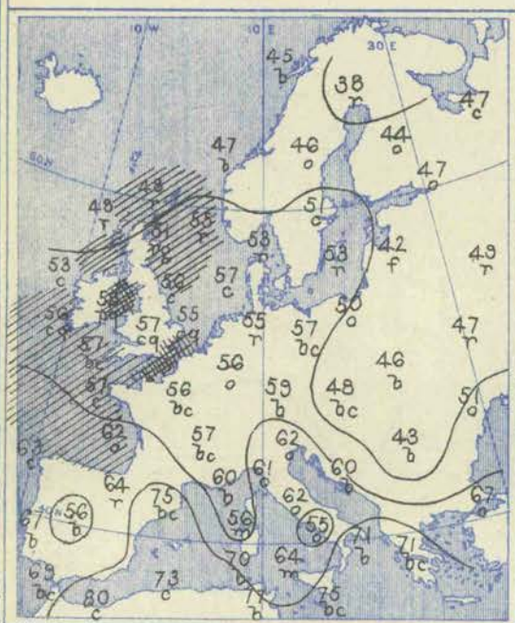
Temperature risen in most of the western countries, but fallen elsewhere. Morning readings highest, 79° at Sfax, 76° at Palma, 75° at Malta, and 73° at Algiers; above 65° at the Mediterranean and Spanish coast stations generally. Lowest, 37° at Archangel, 40° at Karlstad, 43° at Riga, and 44° at Munich; below 50° at most of the Scotch stations. Rising during day to 60° and upwards at most of our own central and southern stations, and reaching 66° in London and at Oxford. Exceeding 70° over the south of France, and exceeding 80° over Spain and southern Italy, the highest reading of all being 86° at San Fernando.

Wind strong to a gale from the South-Westward in the south-western parts of the United Kingdom, moderate to fresh from the same quarter or from South over France, the Netherlands, and the eastern parts of England; moderate to fresh from the South-Eastward or Eastward over Norway and the northern parts of the United Kingdom. Cyclonic circulation of light winds reported over Sweden and northern Russia, Westerly breezes over Austria and Italy, variable or North-Easterly airs over the Spanish Peninsula. Subsequently increasing to a gale over the whole of our Islands and the neighbouring parts of the Continent—from the South-Westward or Westward in the south, but from the South-Eastward or Eastward in the north.

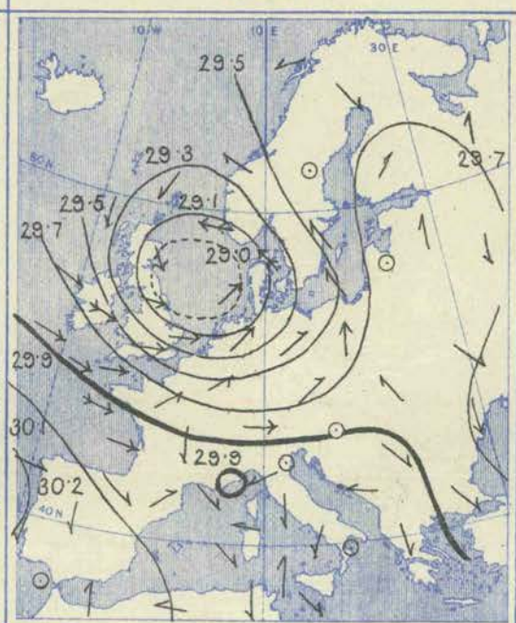
Barometer highest, 30·1 ins. and upwards in an anticyclone over Portugal; 29·9 ins. and upwards in the extreme north of Russia. Lowest, 28·8 ins. and less in a deep depression lying off the west of Ireland; 29·4 ins. and less in a much smaller and shallower system near St. Petersburg. Irish depression subsequently moving eastwards, its centre being found at 6·0 p.m. near Carlisle; barometer falling briskly over Great Britain, but rising again in Ireland.

Wednesday, 23rd September.

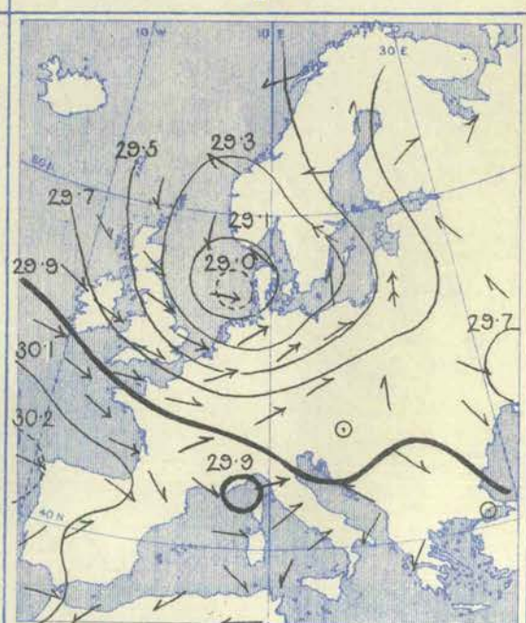
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine over the greater part of Ireland and England, but with showers in a few places; dull and rainy in Scotland, as well as in many parts of northern and central Europe. Fine over the Spanish Peninsula and the southern parts of France and Italy, but dull in the south-west of France, with rain at Biarritz. Gradual improvement taking place later in Scotland, but heavy rain falling in many parts of Scandinavia, Denmark, and Germany; showery weather setting in at night on our western coasts.

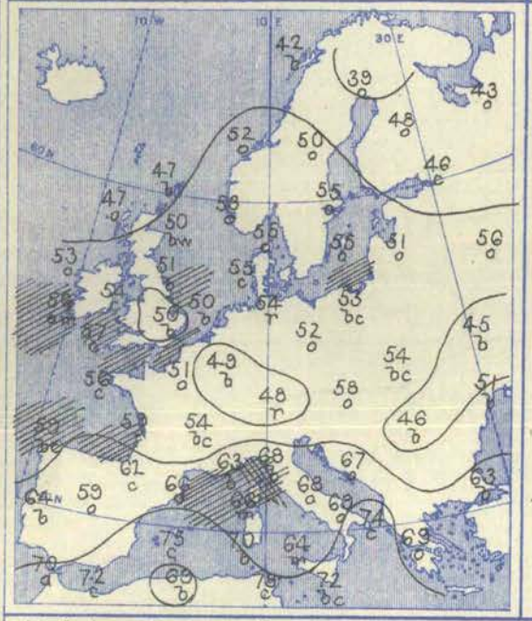
Temperature risen over the eastern parts of our Islands and also over the central parts of the Continent, but fallen in most other localities. Morning readings highest, 80° at Oran, 77° at Tunis, 76° at Palma, and 75° at Barcelona and Malta; above 65° at the Mediterranean and Spanish coast stations generally. Lowest, 38° at Haparanda, 39° at Uleaborg, and 44° at Kuopio and Helsingfors; lowest in our Islands, 48° at Sumburgh Head and Stornoway. Daily maxima below 55° on our own extreme north and north-west coasts, and below 60° in all but the southern parts of the Kingdom, thermometer exceeding 75° in the south of France, and exceeding 80° in Spain and southern Italy.

Wind strong to a gale over north-western Europe generally—from North or North-West in Ireland and Scotland, from West over England, the Netherlands, and the north of France, from South in north Germany, and from East in the north of Denmark and the south of Norway. Light to moderate from the South-Eastward in the south of Sweden, and from the Southward over northern Russia. Calm in Austria, rather variable over southern Europe and the Mediterranean, but chiefly from the Northward. Gale moderating gradually later on our own and the French coasts, and wind veering to the North-Westward in most places; Southerly gale springing up at some of the Baltic stations.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the Portuguese coasts. Lowest, 29·0 ins. and less in a deep depression having its centre over the central part of the North Sea; 29·6 ins. and less in a much shallower system over the extreme south of Russia. Depression over North Sea subsequently moving slowly eastwards; barometer rising steadily over western Europe generally, but falling briskly in Sweden.

Thursday, 24th September.

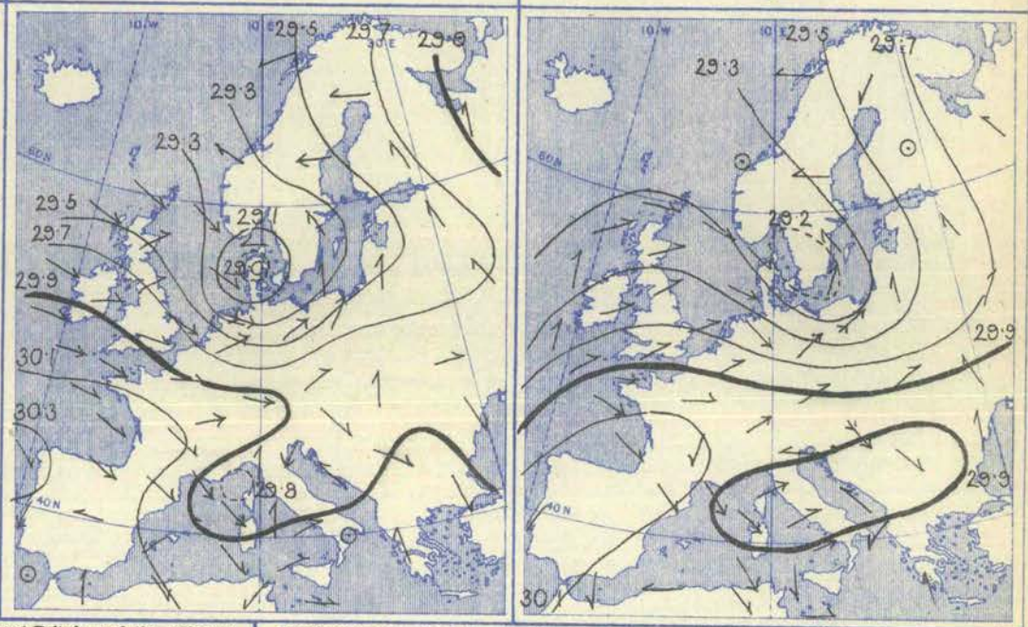
Temperature and Weather. 8 a.m.



Weather in morning fine over the eastern and central parts of Great Britain and the adjacent parts of the Continent; cloudy and showery on our western coasts. Fine over southern and south-eastern Europe as a whole, but dull and unsettled in most of the northern and central countries, with rain in many places. Heavy rain setting in later over the west of our Islands, and spreading in the course of the night over the entire Kingdom; large quantities reported also at several of the Continental stations. Lunar halo seen in several parts of England.

Temperature fallen in most of the western countries, but risen elsewhere. Morning readings highest, 78° at Sfax, 75° at Palma, 74° at Brindisi, and 72° at Nemours and Malta; above 65° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, 39° at Haparanda, 42° at Bodö and Uleaborg, 43° at Archangel, and 47° at Stornoway, Wick, and Nairn. Rising during day to 60° or a little above it at several of the English stations; exceeding 70° over southern Europe generally, and exceeding 80° in the south of Italy.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind moderate to fresh from the Westward over our Islands generally, but South-Westerly on our north-east coasts; strong to a gale from the North-Westward on the eastern shores of the North Sea, and from the South-Westward over north Germany; Southerly or South-Easterly over western and northern Russia; Easterly over the northern parts of Scandinavia. Moderate to fresh from the North-Westward in the west and south of France; South-Westerly or Southerly in Italy, light and variable over Austria, Greece, and the south of Russia. Subsequently backing to the Southward in nearly all parts of the United Kingdom, and increasing to a gale on our western and southern coasts.

Barometer highest, 30·3 ins. and upwards in an area lying off the north-west of Spain; 29·9 ins. and upwards over northern Russia. Lowest, 29·0 ins. and less in a well-marked depression over Denmark; 29·8 ins. and less in two shallow systems lying respectively over the Gulf of Genoa and the northern parts of the Adriatic. Danish depression subsequently moving north-eastwards; new disturbance of great depth approaching our western coasts at night, and moving rapidly eastwards across Ireland.

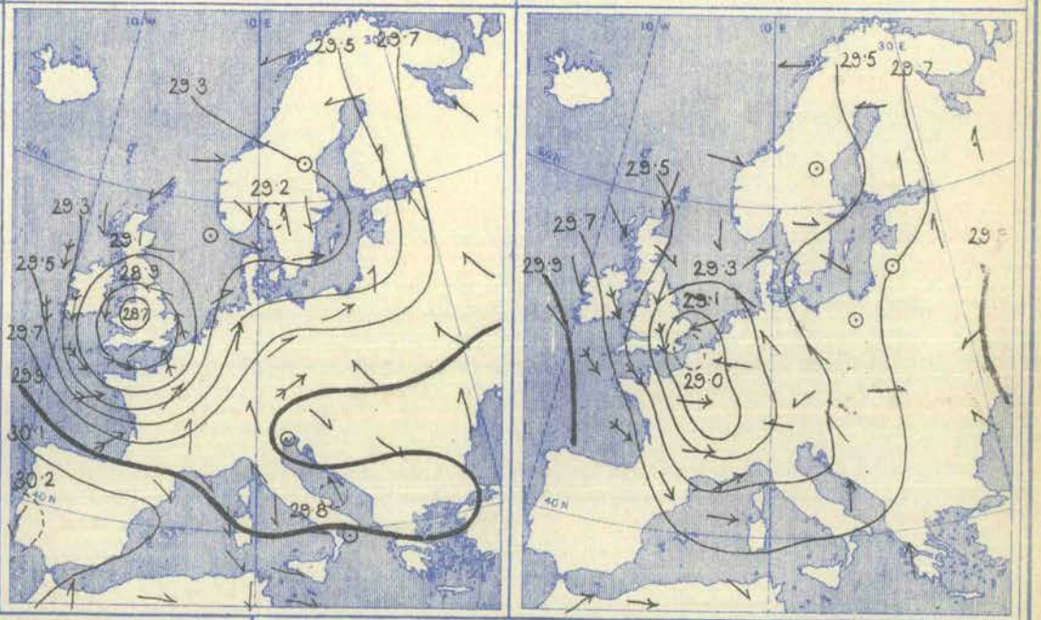
Friday, 25th September.

Temperature and Weather. 8 a.m.

Weather in morning dull and rainy over nearly the whole of Great Britain, France, and the Netherlands, but fair at most of the Irish stations. Fine in many parts of Germany and also in Portugal, northern Italy, and Greece; cloudy or dull over the northern and eastern parts of the Continent generally, with rain in some parts of Finland and Scandinavia. Some improvement taking place later over the western parts of Great Britain, but rain continuing in the east; large quantities reported at Sumburgh Head and Shields, and also over France and the Netherlands. Thunderstorm experienced at Monnier.

Temperature risen a little over England, and also over Greece and the southern parts of Russia and Italy; fallen in most other localities. Morning readings highest, 77° at Sfax, 73° at Malta, 72° at Patras and Algiers; above 65° at the Mediterranean stations generally. Lowest, (1) 44° at Sumburgh Head, and 45° at Stornoway; (2) 44° at Belfort and Cracow, and 45° at Munich and Vienna. Daily maxima below 55° over the northern parts of our Islands generally, but thermometer touching 60° or a little more at some southern stations. Exceeding 65° in the south of France, and reaching 75° at Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.

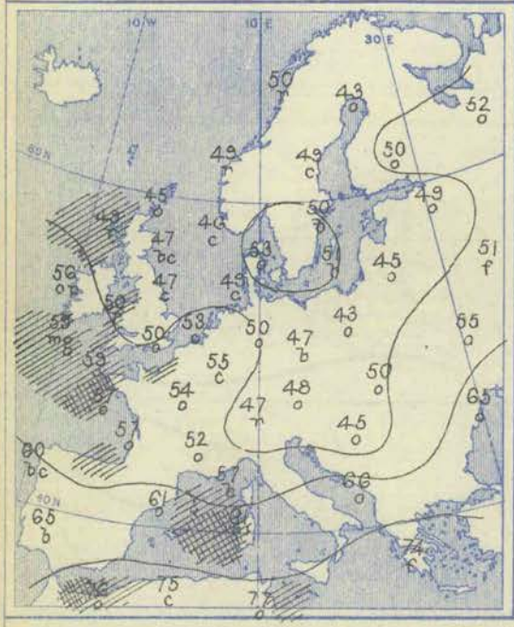


Wind blowing a gale from the Northward or North-Westward on our west and south-west coasts, from the Westward or South-Westward over the Bay of Biscay, and from the Southward or South-Eastward over the south-east of England and the neighbouring parts of the Continent, but light to fresh from the Eastward on the north-east coasts of Great Britain. Moderate to strong from the South-Westward in Germany; Southerly or South-Easterly over northern Russia; Easterly in the extreme north of Scandinavia. Light and variable over southern Europe generally, but North-Westerly in the south of France. Subsequently shifting to the Northward over England and blowing hard; gale in Ireland subsiding gradually.

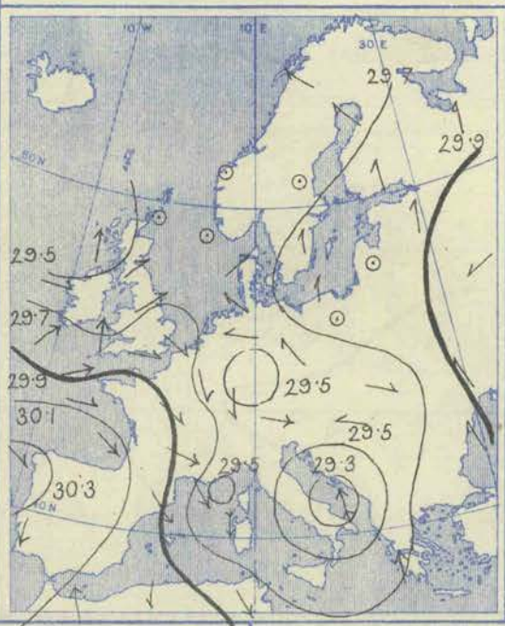
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over Portugal and the neighbouring parts of the Atlantic. Lowest, 28·7 ins. and less in a deep depression having its centre over Cheshire; 29·2 ins. and less in a small shallow system near Karlstad. Depression subsequently travelling steadily in an east-south-easterly direction across England, and reaching the Dutch coast by the evening.

Saturday, 26th September.

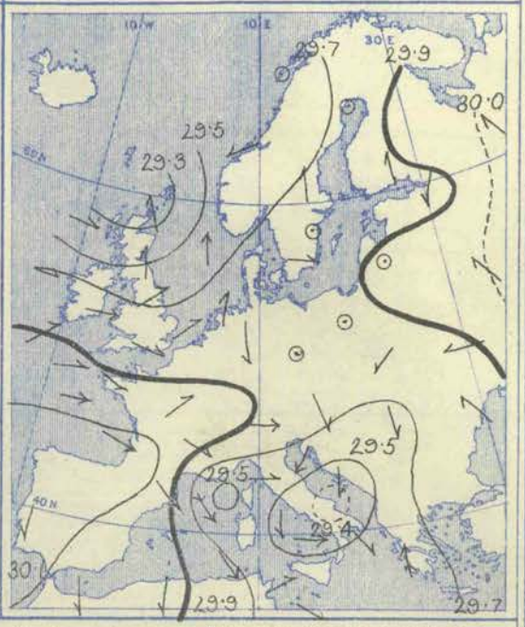
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning cloudy or dull in most parts of our Islands and the Continent, with rain on our north-west coasts, as well as in the west of Norway, south Germany and the neighbouring parts of France and Austria. Fair on the east coasts of Great Britain; fine and light in the south of Sweden, and also in the western parts of the Spanish Peninsula (Italian reports not received). Rain falling later over western Europe generally, as well as in Austria and northern Italy—heavily at night in the north of Ireland.

Temperature fallen in England and France, and also over Poland and the Baltic provinces, risen in most other localities. Morning readings highest, 77° at Sfax, 76° at Oran, 75° at Nemours and Algiers, and 74° at Athens; above 65° at most of the Mediterranean and Adriatic stations. Lowest, (1) 41° at Hangö, 42° at Cracow, and 43° at Haparanda, Neufahrwasser, and Warsaw; (2) 45° at Sumburgh Head, and 46° at Nairn and Leith. Daily maxima very little above 55° at any of our own northern and eastern stations and below it in some places. Rising to 70° and upwards over southern Europe generally, and reaching 81° at Lisbon, Cagliari, and Malta.

Wind strong from the Southward in the western parts of the United Kingdom but light in places. From the South-Westward at all our more eastern stations. Fresh or strong from the North-Westward over France; Northerly on the Portuguese coasts—calm at many of the Scandinavian stations; light from the Southward or South-Eastward in Russia. Cyclonic circulation of light or moderate breezes reported over Germany; Easterly winds in Austria; Southerly gales over the Adriatic. Subsequently veering to the Westward on our western coasts; strong Southerly winds setting in in the west of Norway.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the north-western parts of the Spanish Peninsula; 29·9 ins. and upwards in a large area covering the greater part of Russia. Lowest, 29·3 ins. and less in a well-marked depression over the Adriatic; 29·5 ins. and less in three other systems,—one lying over the Gulf of Genoa, another over Germany, and the third off the west of Scotland. Scotch depression subsequently travelling away to the north-eastward, but barometer remaining rather unsteady on our western coasts. Adriatic disturbance moving slowly southwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier half of the week barometrical pressure was highest over the Spanish Peninsula, but high over southern Europe generally. In our Islands and the more northern parts of the Continent the weather was affected by a very deep depression, which advanced from the Atlantic on the night of the 21st, and which passed eastwards across the northern parts of Ireland and England to Denmark and the south of Sweden, where it ultimately dispersed. During its progress strong gales and heavy falls of rain were experienced over north-western Europe generally, the wind being from the Eastward or North-Eastward in the north, but from South-West or West in the south.

After the middle of the period the barometer over southern Europe gave way gradually, and shallow depressions were formed over northern Italy and the neighbouring portions of the Adriatic and Mediterranean, the weather in the neighbourhood being very unsettled and rainy. Over our Islands and adjacent parts of the Continent, the weather was affected by a much larger and deeper depression, the centre of which advanced eastwards across Ireland on the night of the 24th, and subsequently moved south-eastwards across England to the Netherlands and Germany. During its passage heavy rain fell over our Islands generally, the wind being at first strong to a gale from the Southward, and afterwards from the North-Westward or Northward. At the close of the week further depressions were appearing off our extreme northern coasts, and also over southern Europe, the general conditions being very unsettled, with a continuance of rainy weather in many places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	12·9	− 9·3	15	− 13	SOUTHPORT	12·1	?	14	?
OSWALDKIRK (Yorkshire)					MANCHESTER (Oldham Road)	9·8*	?	12*	?
WORKSOP	13·3	−13·0	16	− 15	COLWYN BAY	18·9	?	23	?
THURCASTON (Leicestershire)	19·1	− 6·1	23	− 7	TENBY				
MARGATE	26·6	− 3·5	32	− 4	NEWQUAY				
WESTBOURNE (Sussex)	25·8*	+ 1·8	43*	+ 3	TORQUAY	29·1*	− 4·9	35*	− 5
BRIGHTON	30·8	− 3·7	37	− 4	ARLEY COTTAGE (County Cavan)	23·5	0·0	28	0
EASTBOURNE	31·0	− 5·0	37	− 6	GUERNSEY	26·2*	−10·8	31*	− 13

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 40.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 3RD, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 236.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	34	54·0	43·2	48·3	1 below	44	− 6	0	− 3	1980	+240	306	−324
	1. SCOTLAND, EAST	65	34	57·1	43·3	49·9	0 (average)	55	0	0	− 4	2300	+191	411	−246
	2. ENGLAND, N.E.	67	38	59·8	45·2	52·1	1 above	71	+ 1	0	− 1	2539	+267	327	−223
	3. ENGLAND, EAST	68	35	61·0	44·5	52·3	0 (average)	72	− 5	0	− 1	2841*	+219	388	−230
	4. MIDLAND COUNTIES	68	36	60·4	44·8	52·3	1 above	72	− 1	0	− 2	2838	+225	372	−250
	5. ENGLAND, SOUTH	66	41	61·0	47·8	54·1	0 (average)	85	− 1	0	− 1	3144	+300	237	−241
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	37	56·5	47·4	51·8	1 above	69	+ 6	0	− 2	2490	+284	234	−230
	7. ENGLAND, N.W.	68	40	59·2	47·4	53·1	1 above	78	+ 6	0	− 1	2776	+361	201	−259
	8. ENGLAND, S.W.	67	37	59·8	47·9	53·6	0 (average)	81	+ 1	0	− 1	3060	+403	155	−207
	9. IRELAND, NORTH	65	38	56·9	47·0	51·7	1 above	68	+ 5	0	− 1	2615	+291	162	−234
	10. IRELAND, SOUTH	65	36	58·4	48·8	53·3	1 above	79	+ 9	0	− 1	3017	+391	89	−212
	—CHANNEL ISLANDS	69	48	61·1	52·7	56·7	0 (average)	103	+ 3	0	0	3530*	+537	39	−109

Rainfall.

	DISTRICTS. (See p. 236.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	14	3 more	187	+ 5	41·8	+ 5·1
	1. SCOTLAND, EAST	4	5	2 less	155	+ 6	19·8	− 4·5
	2. ENGLAND, N.E.	3	2	5 less	131	− 7	14·5	− 4·7
	3. ENGLAND, EAST	3	1	5 less	132	− 4	17·2	− 1·9
	4. MIDLAND COUNTIES	5	4	3 less	131	− 1	17·2	− 3·5
	5. ENGLAND, SOUTH	4	3	5 less	120	− 8	16·9	− 3·7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	9	2 less	165	+ 9	33·5	− 1·6
	7. ENGLAND, N.W.	6	10	0 (average)	149	+ 6	25·1	+ 0·1
	8. ENGLAND, S.W.	6	9	0 (average)	129	−15	20·9	− 6·9
	9. IRELAND, NORTH	7	10	2 more	171	+ 2	30·0	+ 2·7
	10. IRELAND, SOUTH	5	8	1 more	146	− 6	26·2	− 2·4
	—CHANNEL ISLANDS	6	7	2 less	138	−13	17·9	− 4·9

Bright Sunshine.

	DISTRICTS. (See p. 236.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	13	− 6	16	− 8	884	− 63	24	− 1
	1. SCOTLAND, EAST	22	0	27	0	1119	− 9	30	0
	2. ENGLAND, N.E.	25	+ 1	31	+ 2	1084	− 39	29	− 1
	3. ENGLAND, EAST	26	− 3	32	− 4	1301	− 39	36	− 1
	4. MIDLAND COUNTIES	23	− 3	28	− 4	1158	− 39	32	− 1
	5. ENGLAND, SOUTH	29	− 1	35	− 3	1382*	− 23	38	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	17	− 7	21	−11	1180	− 16	32	0
	7. ENGLAND, N.W.	17	− 7	21	−10	1114	− 3	32	0
	8. ENGLAND, S.W.	26	− 4	32	− 5	1504*	+ 53	41	+ 1
	9. IRELAND, NORTH	13	−10	15	−14	1037	− 59	28	− 2
	10. IRELAND, SOUTH	19	− 8	23	−11	1221	− 25	33	− 1
	—CHANNEL ISLANDS	28	− 6	34	− 8	1698	+ 20	47	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period showed a considerable improvement over the Kingdom as a whole, but a good deal of rain was again experienced in the western districts.

Temperature differed very little from the mean. The highest of the maxima, which were recorded on September 27th over England, and later in the week over Ireland and Scotland, ranged from 69° in the Channel Islands, and 67° or 68° in most of the English districts, to 63° in Scotland N., and 61° in Scotland W. The lowest of the minima were registered about the middle of the week, and ranged from 34° in Scotland N. and E., and 35° in England E., to 41° in England S., and to 48° in the Channel Islands.

Rainfall somewhat exceeded the mean over Ireland and in Scotland N., and just equalled it in England S.W. and N.W.; in all the other districts, however, the fall was considerably less than the normal.

Bright Sunshine slightly exceeded the mean in England N.E., and just equalled it in Scotland E., but was deficient in all other parts of the Kingdom. The percentage of the possible amount of duration ranged from 35 to 28 in most of the English districts, to 21 in Scotland W. and England N.W., 16 in Scotland N., and 15 in Ireland N.

Barometer and Wind.—At the commencement of the period a depression was travelling North-Eastwards over Scotland, and causing strong Southerly to South-Westerly winds or gales in all parts of the Kingdom. In its rear the wind moderated and veered to the North-Westward very generally. After the passage of some small secondary disturbances over England on Tuesday, the distribution of pressure became anticyclonic over the southern half of our Islands; South-Westerly breezes therefore prevailed in the north, and variable or North-Easterly airs in the south and south-east. By Friday, however, the anticyclone commenced to move southwards, small depressions (secondary to large systems in the far north) began to pass over Ireland and England from the westward, and the general distribution was again becoming favourable for the advance of depressions over us from the Atlantic.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 235 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		Of Highest each day.	Of Lowest each day.	For whole of each day.				Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℳ	55	40	52·7	44·1	48·2	0·0	43	0	6	1·32	+0·51	*	*	*	*
	Stornoway ℳ	55	39	53·3	41·6	47·2	- 1·1	38	1	6	1·41	+0·39	19·6	- 2·0	25	- 2
	Wick ℳ	63	38	54·1	40·9	47·2	- 1·6	41	3	6	1·12	+0·53	*	*	*	*
	Glencarron 𝒮	56	34	52·7	42·2	47·2	- 1·0	36	0	7	2·47	+0·63	*	*	*	*
	Fort Augustus 𝒮	63	38	56·3	43·7	49·7	- 0·3	54	0	6	0·77	-0·21	10·6	- 5·2	13	- 7
	Fort William 𝒮	57	41	54·9	46·4	50·5	0·0	60	0	7	1·41	-0·33	7·2	-13·5	9	-16
1. SCOTLAND, E.	Nairn ℳ	65	38	56·0	43·1	49·2	- 0·4	50	0	4	0·86	+0·24	*	*	*	*
	Aberdeen ℳ	64	34	53·1	42·7	50·0	0·0	56	0	5	0·81	+0·08	27·5	+ 3·5	34	+ 3
	Braemar 𝒮	63	37	53·8	42·6	47·9	+ 1·5	41	0	3	0·82	+0·07	22·5†	+ 0·5†	28†	+ 1†
	Ochtertyre 𝒮	64	36	58·1	43·1	50·2	+ 0·5	57	0	4	0·39	-0·49	*	*	*	*
	Leith ℳ	65	42	60·6	46·1	53·0	+ 1·5	77	0	2	0·12	-0·38	*	*	*	*
	Marchmont 𝒮	63	35	56·1	42·1	48·8	- 0·5	48	0	4	0·26	-0·54	18·8	- 3·2	23	- 5
2. ENGLAND, N.E.	Alnwick Castle ℳ	64	41	59·1	44·6	51·5	+ 1·5	67	0	2	0·10	-0·62	*	*	*	*
	Durham ℳ	65	38	60·1	43·3	51·3	+ 0·8	65	0	3	0·08	-0·54	25·3	+ 1·7	32	+ 3
	Shields ℳ	65	41	59·4	45·1	51·9	+ 0·8	69	0	3	0·09	-0·45	*	*	*	*
	Scarborough ℳ	65	41	59·5	46·1	52·5	+ 0·4	74	0	3	0·32	-0·36	*	*	*	*
	York ℳ	67	39	61·6	43·4	52·1	+ 0·5	71	0	4	0·23	-0·37	23·9	- 0·5	30	0
	Spurn Head ℳ	66	44	58·9	48·6	53·5	+ 0·2	81	0	3	0·11	-0·39	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	68	37	61·8	44·7	52·8	+ 0·5	76	0	4	0·24	-0·40	23·0	-3·6	28	- 5
	Yarmouth ℳ	64	41	59·4	45·7	52·2	- 1·3	71	0	3	0·10	-0·30	*	*	*	*
	Geldeston ℳ	66	35	62·2	43·2	52·2	- 1·1	71	0	2	0·05	-0·57	34·6	+3·6	43	+ 4
	Cambridge ℳ	68	39	62·1	44·3	52·8	+ 0·2	76	0	2	0·05	-0·49	27·2	-1·1	34	- 2
	Rothamsted ℳ	64	38	59 4	44·4	51·5	- 0·3	67	0	4	0 15	-0·53	18·8	-9·2	23	-12
4. MIDLAND COUNTIES	Harrogate ℳ	66	41	59·3	45·0	51·8	+ 1·1	69	0	4	0·49	?	24·6	?	30	?
	Bawtry (Hesley Hall) ℳ	67	36	61·6	42·7	51·7	+ 0·1	68	0	5	0·13	-0·44	*	*	*	*
	Loughborough ℳ	68	41	61·7	45·1	53·0	+ 0·4	77	0	4	0·29	-0·30	*	*	*	*
	Stamford (Ketton Hall) ℳ	68	38	62·3	44·7	53·1	+ 0·5	78	0	3	0·17	-0·51	*	*	*	*
	Cheadle ℳ	63	40	57·2	44·2	50·4	- 0·2	59	0	5	0·55	-0·13	*	*	*	*
	Shirley (near Solihull) ℳ	65	41	61·6	46·8	53·8	+ 1·6	83	0	6	0·49	?	*	*	*	*
	Churchstoke ℳ	65	40	59·0	44·8	51·7	+ 1·5	68	0	6	0·61	-0·10	27·8	+ 3·0	34	+ 3
	Hereford ℳ	68	40	60·3	45·7	52·7	+ 0·8	75	0	5	0·27	-0·40	*	*	*	*
	Cirencester ℳ	65	40	60·3	43·4	51·4	+ 0·3	66	0	4	0·37	-0·35	22·1	- 2·8	27	- 5
	Oxford ℳ	66	42	60·7	46·0	53·0	+ 0·4	77	0	3	0·21	-0·45	19·2	- 7·9	24	-11
5. ENGLAND, S.	London ℳ	65	42	60·7	45·7	52·8	- 0·4	76	0	3	0·14	-0·46	14·7†	- 7·1†	18†	-11†
	North Foreland ℳ	63	43	60·1	49·3	54·4	- 0·6	87	0	2	0·12	?	*	*	*	*
	Dungeness ℳ	64	41	61·7	46·9	53·9	- 0·9	83	0	4	0·30	-0·42	*	*	*	*
	Hastings (St. Leonards) ℳ	64	43	61·8	47·1	54·1	- 0·6	85	0	4	0·37	-0·43	37·0	+ 4·0	46	+ 5
	Southampton ℳ	66	44	62·5	48·6	55·2	+ 0·6	92	0	5	0·38	-0·37	21·4	- 7·6	26	-12
	Hurst Castle ℳ	64	47	61·4	50·3	55 6	+ 0·7	95	0	6	0·22	-0·56	*	*	*	*
	Stowell ℳ	62	42	59·1	47·0	52·8	+ 0·2	76	0	6	0·35	-0·50	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) 𝒮	61	44	55·5	47·1	51·1	+ 1·1	64	0	7	1·17	-0·61	*	*	*	*
	Glasgow 𝒮	60	42	56·1	46·8	51·2	+ 1·9	64	0	7	0·50	-0·35	15·9	- 2·7	20	- 5
	Ardrossan 𝒮	59	43	55·6	49·1	52·2	+ 0·5	71	0	7	0·66	-0·14	*	*	*	*
	Glenlee 𝒮	61	37	57·8	45·7	51·5	+ 1·7	67	0	7	0·98	-0·25	*	*	*	*
	Douglas (Isle of Man) ℳ	59	44	57·5	48·5	52·8	+ 1·5	76	0	7	0·97	+0·15	18·2	-11·6	22	-16
7. ENGLAND, N.W.	Stonyhurst ℳ	65	40	56·8	45·4	50·9	- 0·2	62	0	7	1·59	+0·47	16·2	- 9·3	20	-12
	Blackpool ℳ	64	40	59·9	46·8	53·0	+ 0·7	77	0	7	0·62	-0·32	19·2	- 5·5	24	- 7
	Manchester (Prestwich) ℳ	65	42	60·7	45·8	52·9	+ 1·6	76	0	6	1·32	+0·37	10·5	?	13	?
	Liverpool Obsy. (Bidston) ℳ	67	44	58·9	47·6	53·0	+ 0·3	77	0	6	0·78	-0·07	*	*	*	*
	Llandudno ℳ	68	47	61·0	49·5	55·0	+ 1·2	91	0	5	0·81	-0·01	*	*	*	*
	Holyhead ℳ	59	46	58·0	49·4	53·5	- 0·7	81	0	5	0·56	-0·25	*	*	*	*
8. ENGLAND, S.W.	Llandovery ℳ	67	37	61·4	43·4	52·0	- 0·1	70	0	7	1·51	+0·41	*	*	*	*
	Pembroke ℳ	60	49	58·1	51·7	54·8	+ 0·6	90	0	5	1·22	+0·34	30·3	+ 1·8	37	+ 1
	Clifton ℳ	65	43	59·8	47·1	53·2	+ 0·9	78	0	5	1·02	+0 16	*	*	*	*
	Arlington (N. Devon) ℳ	62	42	58·6	47·0	52·5	- 0·1	74	0	6	1·51	+0·39	*	*	*	*
	Cullompton ℳ	67	38	61·9	45·9	53·5	- 0·1	81	0	4	0·30	-0·38	24·4	- 1·8	30	- 3
	Falmouth ℳ	62	48	59·5	50·5	54·8	0·0	90	0	6	0·55	-0·57	24·5	- 6·3	30	- 8
	Plymouth ℳ	63	48	59·7	50·5	54·9	+ 0·3	90	0	6	0·57	-0·35	22·3	- 6·6	28	- 9
	Prawle Point ℳ	63	45	59·1	47·4	53·0	- 2·0	77	0	6	0·73	-0·02	*	*	*	*
9. IRELAND, N.	Malin Head ℳ	60	44	54·9	48·4	51·5	0·0	67	0	7	1·53	?	*	*	*	*
	Londonderry ℳ	62	41	57·9	46·7	52·0	+ 0·7	70	0	7	0·79	-0·13	*	*	*	*
	Edenfel (Omagh) ℳ	59	38	54·9	44·6	49·5	+ 1·2	53	0	7	0·56	-0·27	*	*	*	*
	Belmullet ℳ	61	48	56·6	51·3	53·8	+ 1·9	83	0	6	1·42	+0·38	*	*	*	*
	Markree Castle ℳ	61	39	57·0	45·7	51·1	+ 0·8	64	0	7	0·84	-0·09	11·4	-10·4	14	-13
	Armagh ℳ	62	40	58·0	46·2	51·8	+ 1·5	69	0	7	1·08	+0·46	15·2	- 9·8	19	-12
	Donaghadee ℳ	65	41	58·9	45·9	52·1	+ 0·3	71	0	7	0·64	+0·03	*	*	*	*
	Edgeworthstown ℳ												*	*	*	*
10. IRELAND, S.	Dublin ℳ	65	43	59·9	48·2	53·8	+ 1·4	83	0	5	0·53	0·00	21·9	- 7·1	27	-10
	Parsonstown ℳ	61	40	58·1	47·0	52·3	+ 2·0	72	0	5	0·84	+0·08	14·5	-11·9	18	-14
	Kilkenny ℳ	64	36	58·6	47·0	52·5	- 0·1	74	0	6	0·56	-0·02	*	*	*	*
	Roche's Point ℳ	61	45	58·4	49·9	54·0	+ 0·5	84	0	4	0·35	-0·45	*	*	*	*
	Valencia ℳ	59	45	57·7	50·7	54·0	0·0	84	0	6	1·35	+0·35	19·7	- 7·2	24	-10
	Killarney ℳ								0			?	*	*	*	*
	Foynes ℳ	60	45	57·4	49·8	53·4	+ 1·5	80	0	6	1·43	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's) ℳ	61	50	58·9	52·9	55·8	- 0·1	97	0	6	0·53	-0·26	26·7	?	33	?
	Jersey ℳ	69	48	63·3	52·4	57·6	+ 0·1	109	0	6	0·87	-0·04	32·7	- 1·8	40	- 5

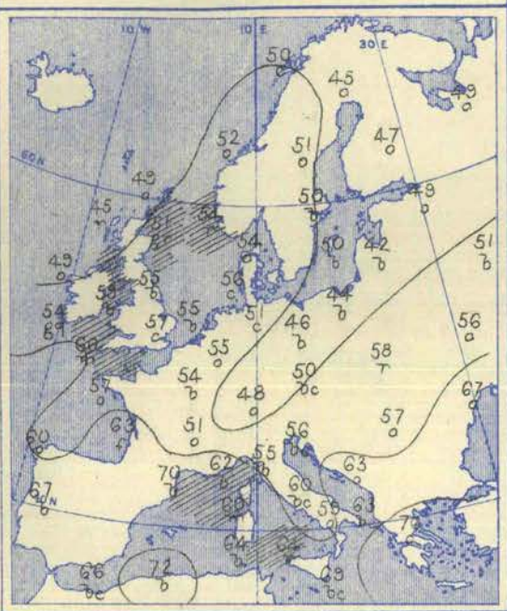
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked 𝒮 with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 27th September.

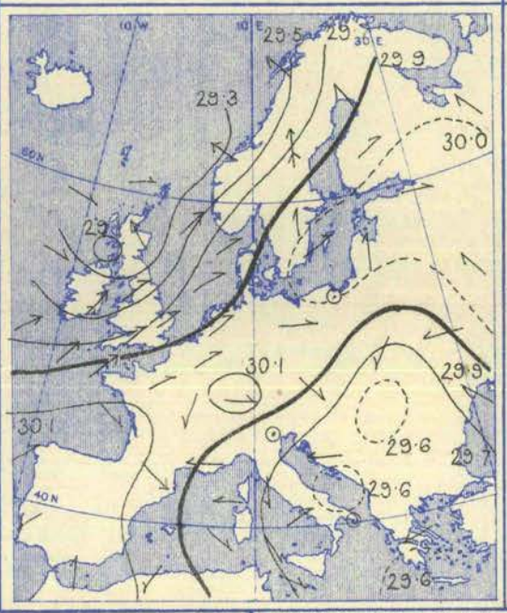
Temperature and Weather. 8 a.m.

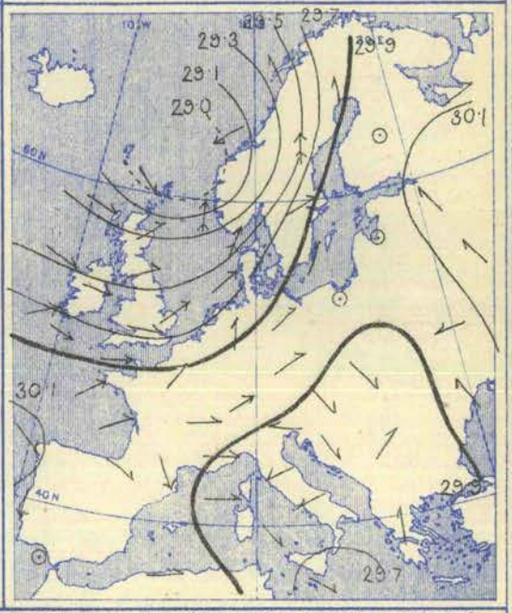


Weather in morning fine and bright over Russia, central and southern Europe, fair, but not settled, over England and the eastern shores of the North Sea. Very rainy and squally over Scotland and Ireland, and also over the south-eastern parts of the Mediterranean. Much rain later over the north-western and northern parts of our Islands, smaller quantities over the other parts of the Kingdom, the Netherlands, the north of France, and some parts of north Germany.

Temperature risen rapidly over England, slightly over Norway, Holland, and the north of France. Morning readings highest, 76° at Patras, 70° at Perpignan, and above 60° at most of the coast stations in southern and south-western Europe; 61° at Jersey, 60° at Scilly and Hurst Castle, and above 55° in many other parts of our Islands; 54° to 52° in the west and north-west of Norway. Lowest, 45° at Haparanda, also at Wick, Stornoway, and Nairn, 49° at Belmullet, 50° in the south of Sweden. Rising later to between 65° and 60° in many parts of our Islands, to 68° at Paris, 75° at Nice, 77° at Palermo, 81° at Algiers.

Barometer and Wind. 8 a.m. and 6 p.m.



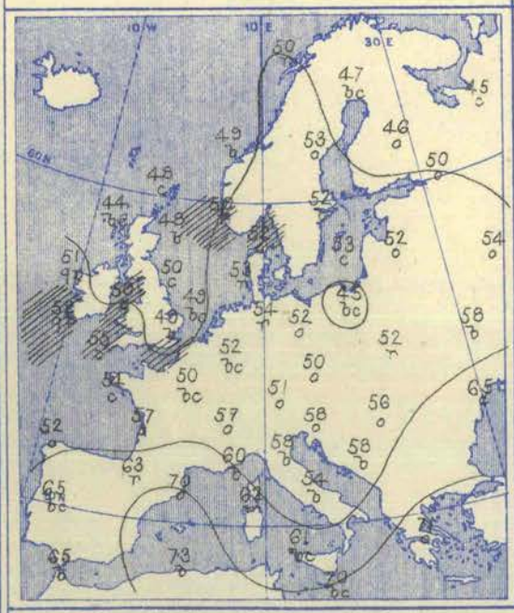


Wind (1) South-Easterly to South-Westerly over the northern and north-western parts of the Kingdom—a well-marked cyclonic circulation being prevalent over Scotland and the northern parts of Ireland and England; (2) Northerly over south-eastern and southern Europe, North-Westerly over Sardinia, Sicily, and Malta; (3) nearly calm in a band stretching from Spain across France and central Europe to Russia. The cyclonic circulation over Scotland moving North-Eastwards later.

Barometer highest, 30·1 ins. and more over the Iberian Peninsula and the south-west of France, 30·0 ins. and more over central Russia and the Baltic Provinces, and exceeding 29·9 ins. in a broad band stretching from Spain across central Europe to Russia. Lowest, (1) below 29·2 ins. to the northward of Sumburgh Head and below 29·2 ins. in a small well-marked depression having its centre off the west of Scotland; (2) below 29·6 ins. in a depression slightly to the southward of Lesina. Scotch depression moving north-eastwards later, new one appearing near Malta.

Monday, 28th September.

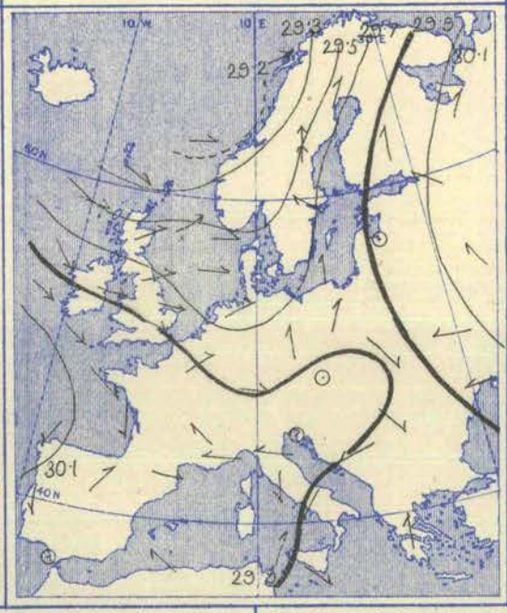
Temperature and Weather. 8 a.m.

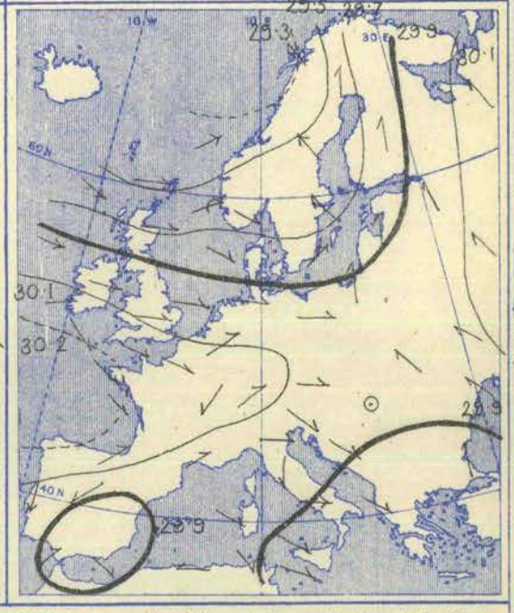


Weather in morning fine and bright over all the eastern parts of Great Britain, changeable in the west and rather showery; rainy in many parts of Norway and Sweden, as well as at Lemberg and Limoges; clear over the Mediterranean and south of Russia. Rain falling later over Scandinavia, the north and west of our Islands, Germany, and showers over the greater part of France; weather fine throughout over the greater part of England; lightning seen at York and Cambridge—Lunar halo over the south-east of England.

Temperature fallen generally over the British Islands and the north of France. Morning readings highest, 73° at Algiers, 71° at Athens, 70° at Barcelona; 65° at Lisbon and at Nicolaieff, 56° at Jersey, 52° at Valencia. Lowest, (1) 44° at Stornoway, 46° at Nairn, Donaghadee, Parsonstown, and Loughborough; (2) 45° at Archangel, 46° at Kuopio; (3) 45° at Neufahrwasser, 48° at Breslau and Vienna; failing to reach 60° over our Islands later, except at Dungeness, Hurst Castle and Jersey, but touching 64° at Paris, 72° at Nice, 79° at Lisbon, as well as at Croisette and Palermo, 81° at Oran and Algiers, 95° at Sfax.

Barometer and Wind. 8 a.m. and 6 p.m.



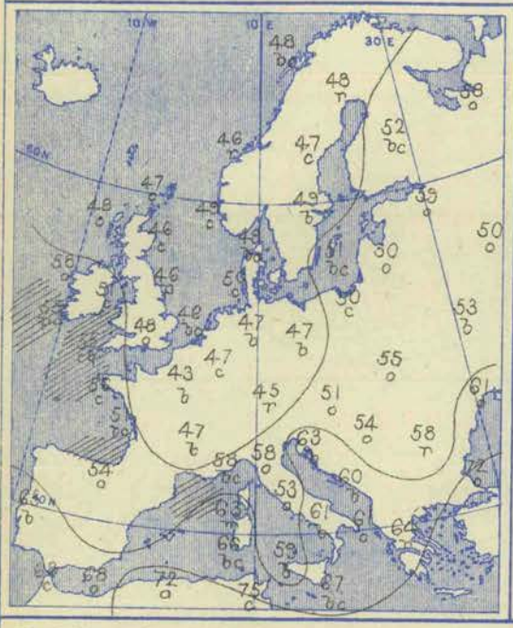


Wind (1) South-Easterly to South-Westerly over the Baltic, and all countries lying to the Eastward of the North Sea, but North-Westerly, moderate to strong, over the British Islands; (2) very light and variable over southern Europe generally. Backing somewhat over the United Kingdom later, but decreasing in force.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over Russia; (2) 30·1 ins. and more to 30·0 ins. over the Bay of Biscay, the north of Spain, the west of France, and the extreme south-west of the British Isles. Lowest, below 29·2 ins. in a depression off the north-west of Norway, below 29·6 ins. in a secondary over the eastern part of the North Sea, and below 29·9 ins. in a shallow disturbance over the northern parts of the Mediterranean. Rising over the British Islands and western Europe later.

Tuesday, 29th September.

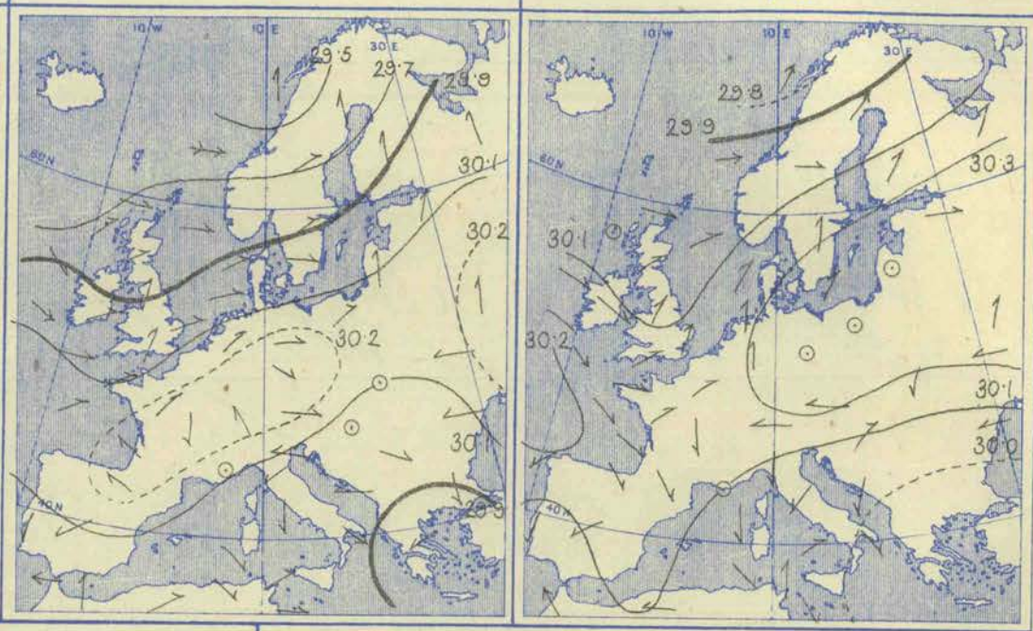
Temperature and Weather. 8 a.m.



Weather in morning fine and bright at most stations over the Mediterranean and the southern countries of Europe; cloudy over the north-western and northern countries, with rain in many places, and a threatening appearance at Prawle Point. A great deal of rain falling later on the southern shores of the English Channel, and smaller quantities in showers locally, over the north-western and northern parts of the British Islands and some parts of Scandinavia.

Temperature in morning highest, 75° at Sfax, 72° at Algiers, and exceeding 60° at many other of the extreme southern stations; 57° at Jersey, 55° at Scilly and Valencia; 59° at St. Petersburgh, 58° at Archangel, 56° at Memel. Lowest, (1) 45° at Nairn and York, 46° at Aberdeen and Yarmouth; (2) 38° at Limoges, 40° at Belfort and Wiesbaden, 43° at Paris. Again falling to reach 60° at almost the whole of our stations during the day, but touching 62° at Paris, 72° at Nice, 79° at Algiers and Palermo, and 81° at Cagliari and Lisbon.

Barometer and Wind. 8 a.m. and 6 p.m.

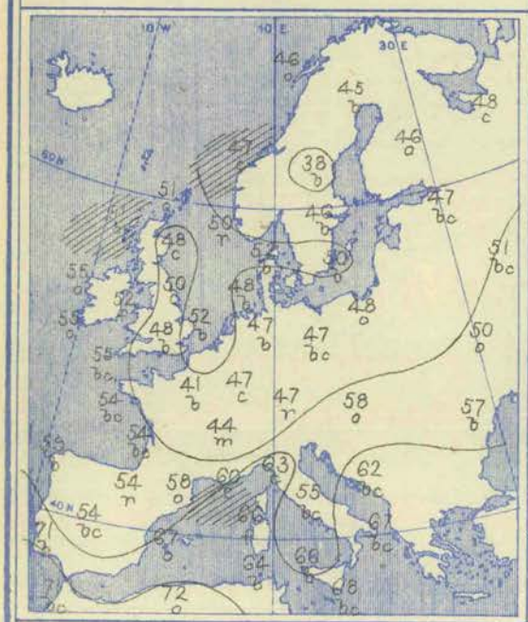


Wind light and anticyclonic over all the western, central, southern, and eastern countries of Europe; moderate and cyclonic over the north-western and northern countries, the direction varying from South-East to South-West and North-West. Winds in the latter region tending to fall light later, and moderate North-Easterly to Northerly winds becoming general over southern Europe.

Barometer highest, 30·3 ins. and more to 30·1 ins. over all but the northern and north-western countries. Lowest, below 29·5 ins. over the north-western parts of Lapland and the north of Norway. Distribution irregular over the Mediterranean, with very slight gradients. The gradients moderate and tending to decrease. Rising decidedly in all districts later, but especially in the north.

Wednesday, 30th September.

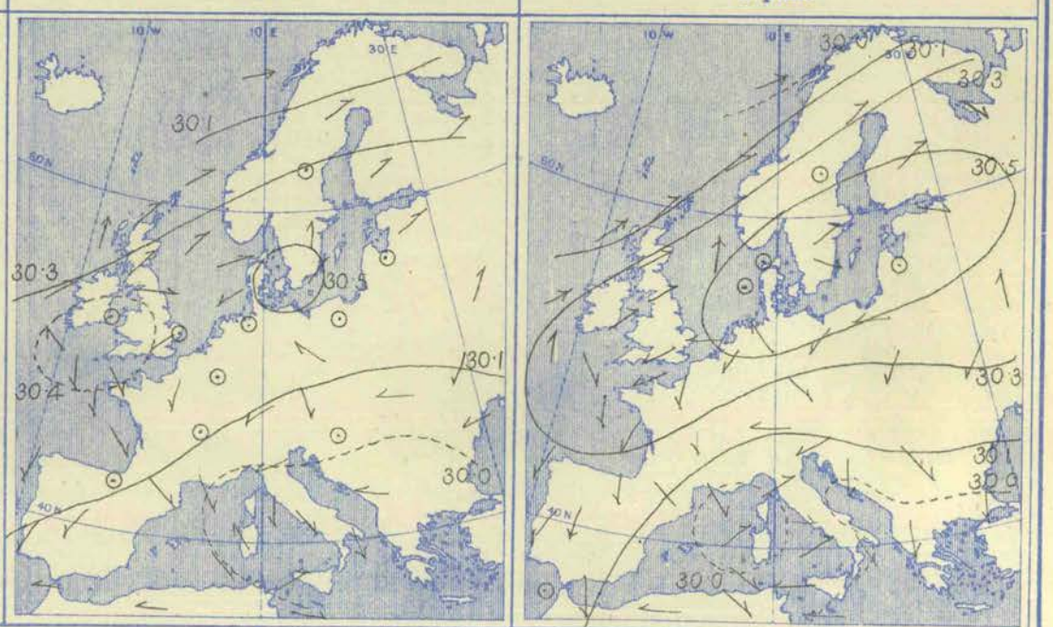
Temperature and Weather. 8 a.m.



Weather in morning fine over Spain, France, and many parts of our Islands, as well as over Denmark, the Baltic, and the Gulf of Bothnia, but hazy or foggy in several localities; cloudy or overcast at the extreme western and north-western stations, as well as over the southern parts of France. Rain later over Ireland, Scotland, and at Bodö, also in Switzerland and several parts of southern Europe—amounts very large at Turin and Leghorn. Weather fair over England generally, but very hazy.

Temperature fallen temporarily over our inland districts, as well as over Finland and the north of Russia. Morning readings highest, 72° at Algiers 68° at Malta, 67° at Brindisi, and Palma, 59° at Jersey, 55° at Valencia and Belmullet. Lowest, (1) ? 38° at Hernösand, 46° at Stockholm; (2) 42° at York and Loughborough; (3) 41° at Paris, 42° at Limoges, 44° at Belfort. Rising later to between 60° and 67° over central England, to 64° at Paris, and 70° at Nice, 79° at Cagliari, 81° at Palermo, Sanguinaire, and Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.

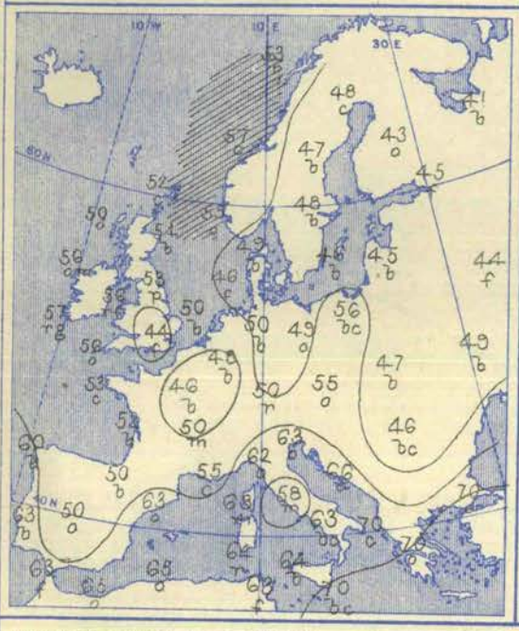


Wind Southerly to South-Westerly, and moderate, over Scotland, Scandinavia, and England Easterly to North-Easterly (light and variable) over central Europe, France and Spain; very light and variable (calm in several localities) over England and the southern shores of the Baltic. The South-Westerly wind in the north freshening later, and beginning to spread southwards over Ireland. Calms still holding over England, but a definite cyclonic circulation forming over the northern parts of the Mediterranean and Italy.

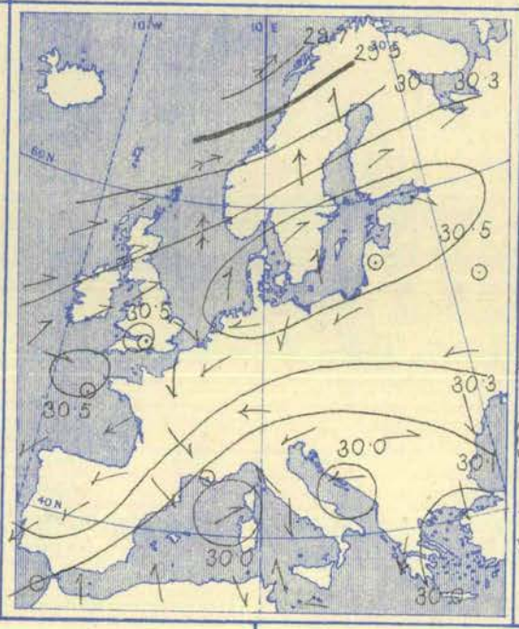
Barometer highest, 30·5 ins. and more over the south of Sweden, and exceeding 30·3 ins. in a broad but complex high-pressure area stretching from the Atlantic across France, the North Sea, the Baltic, and north Germany to Russia. Lowest, 30·1 ins. and less over Lapland on the one hand, and over Italy, the eastern half of the Mediterranean, and south-eastern Europe on the other. Falling rather decidedly over northern Europe later, rising over England and France.

Thursday, 1st October.

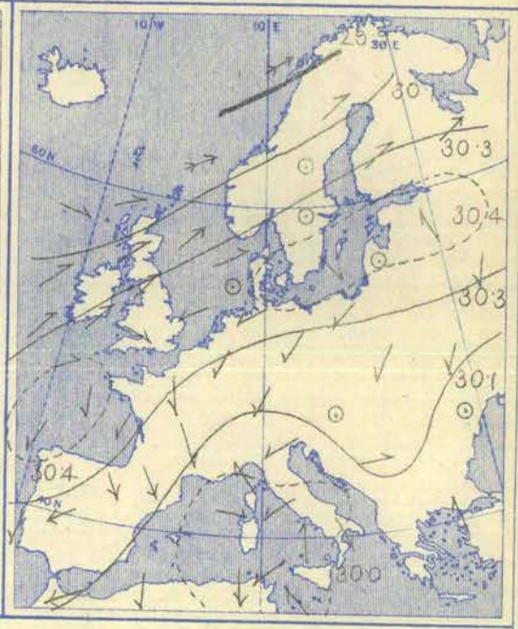
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Baltic and Sweden, as well as in the east of Scotland, on the Portuguese coast, and in the south of Spain; very foggy or misty over the English Channel and England, and rainy at many of our western stations, and at Turin. Some rain later over all the western parts of the British Isles (0.5 in. at Valencia); and much rain over the Riviera, Sicily, Italy, and Switzerland; misty weather continuing over England.

Temperature continuing rather low over England, rising decidedly over Scandinavia. Morning readings highest, 70° at Patras, Brindisi, and Malta, and exceeding 60° at most of the Mediterranean and Portuguese stations. Lowest, (1) 41° at Archangel, 43° at Knopio, 44° at Moscow; (2) 44° at Loughborough and in London, 45° at Le Mans, 46° at Paris and Limoges. Rising later to between 63° and 65° over the northern half of Great Britain, to 60° at Prawle Point and Hurst Castle, 62° at Paris, and 63° at Biarritz, 75° at Brindisi; succeeding night mild over England generally.

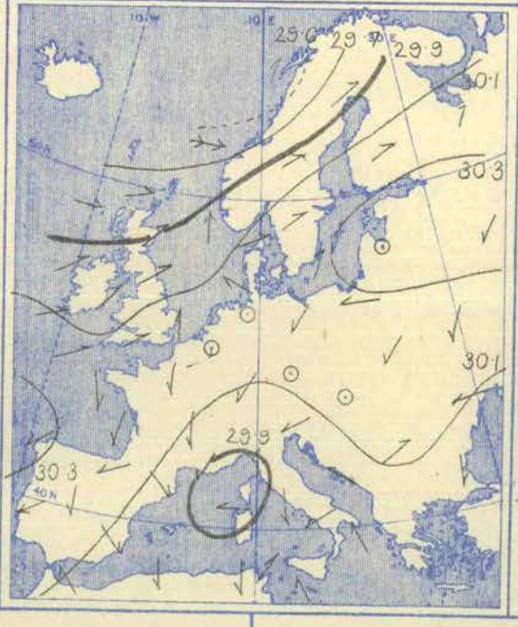
Wind (1) South-Westerly over the western and northern parts of the British Islands, and the whole of northern Europe; (2) Northerly to Easterly over all the central and southern countries; (3) calm over England, and nearly so over Denmark and the south of Sweden. A cyclonic circulation of moderate winds prevalent over the northern parts of the Mediterranean. The South-Westerly wind blowing a gale over the west of Norway, but of little strength over Scotland and Ireland. Circulation over the Mediterranean breaking up.

Barometer highest, 30·6 ins. at Hangö, and varying between that value and 30·3 ins. in a broad band spreading from Russia across the Baltic, north Germany, the North Sea, France, England, and Ireland, to the Atlantic. Lowest, below 29·8 ins. over Finmark and the north-west of Norway, and below 30·0 ins. over many parts of Italy and the Mediterranean. Falling decidedly but irregularly over the United Kingdom later.

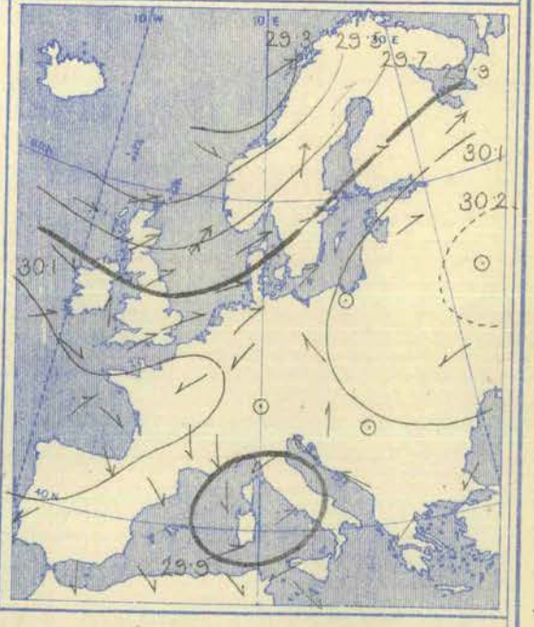
Friday, 2nd October.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of eastern and central Europe, as well as the northern parts of France and on the extreme south-east coasts of England—very cloudy elsewhere, with rain in the north-west of Norway and the Hebrides on the one hand, and over the Mediterranean on the other. Heavy rain (2·6 ins.) at Christiansund later, and slight falls in our Islands, but very heavy falls reported from the south of France and north of Italy.

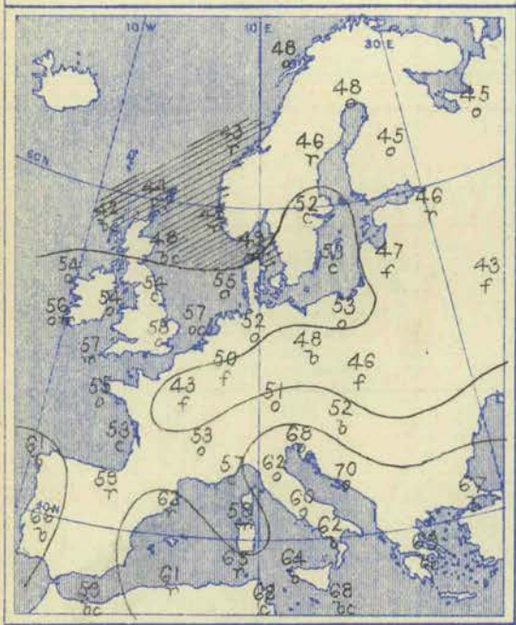
Temperature highest, 71° at Patras, 70° at Brindisi, and above 60° at most of the Mediterranean stations (but only 54° at Tunis); 58° at Scilly and Hurst Castle, and 54° at Malin Head, as well as at Swinemunde and Newfahrwasser. Lowest, (1) 40° to 47° over the north of Russia, 45° at Bodö; (2) 45° at Le Mans, 49° at Paris, 50° at Belfort. Rising later to between 65° and 60° over Great Britain, to 61° at Paris, 63° at Wiesbaden, 64° at Rochefort; not touching 69° at Nice, but reaching 75° at Palermo, 77° at Malta, and 86° at Sfax.

Wind (1) Westerly to Southerly over all the north-western and northern countries, moderate in force generally, but a gale at Christiansund; (2) Easterly to North-Easterly in the south and south-west of Europe, Northerly over Tunis; (3) very light and variable to calm over the central countries. Increasing to a gale later in several parts of Norway. Remaining light in our Islands, but increasing to a gale from the Southward over Scandinavia.

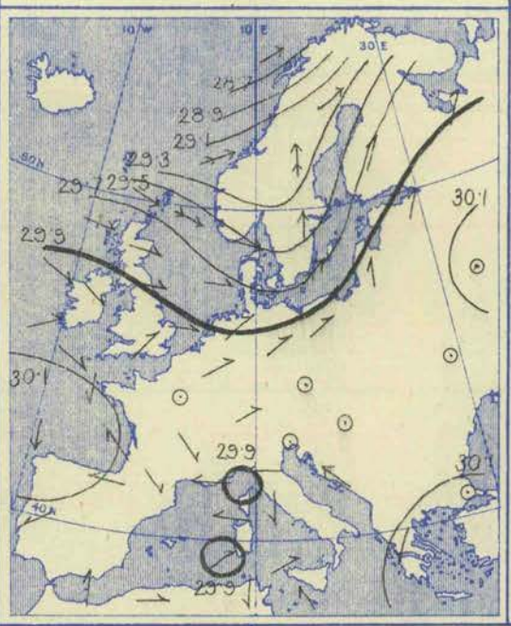
Barometer highest, 30·3 ins. and more to 30·2 ins. (1) over Russia, the Baltic, and north Germany; (2) over the Bay of Biscay, the north and west of France, and the north of Spain. Lowest, below 29·6 ins. in the north-west of Norway; below 29·8 ins. in a well-marked depression near Malta, and in another over Corsica and the neighbouring parts of the Mediterranean. Falling very fast over Scandinavia and our extreme northern stations later as a well-marked depression approached the north of Norway from the westward;

Saturday, 3rd October.

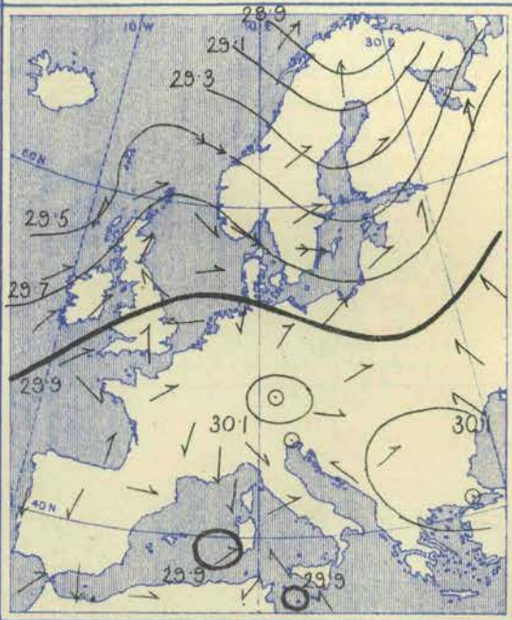
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern Europe, also on the Portuguese coast and at many of our northern stations; very cloudy or overcast elsewhere, with rain very generally over northern Europe and in some parts of England, fog and haze over France and central Europe. Rain falling later in all parts of our Islands and Scandinavia—most in the west and north—the amounts at the English stations being small; slight local showers in some parts of France.

Temperature fallen decidedly over the northern parts of the British Islands and Norway. Morning readings highest, 69° at Athens, and above 60° at most of the Mediterranean stations and on the Portuguese coast, 59° at Jersey, 57° at Scilly, and 56° to 54° on the west and south coasts of Ireland. Lowest, (1) 43° at Moscow and at Christiansund, 44° at Sumburgh Head, 46° at Nairn and Hernösand. Rising later to between 60° to 67° over England, to 61° at Paris, 63° at Berlin, and 77° at Nice.

Wind (1) Westerly to Southerly, a gale at the Scandinavian stations. Westerly and variable (moderate to light in force) over the British Islands, Northerly on the coast of Portugal, very light and variable over central, eastern, and southern Europe, as well as the Mediterranean. Backing to the Southward at our western and northern stations later, and freshening decidedly; gale over Scandinavia veering to North-West.

Barometer highest, (1) 30·22 ins. at Corunna, and exceeding 30·1 ins. over the northern parts of Spain and the Bay of Biscay; (2) 30·1 ins. and more over central Russia, and exceeding 30·0 ins. in a "col" stretching from west to east across France and south Germany, and uniting the two high-pressure systems noticed above. Lowest, below 28·7 ins. over Finmark and the east of Lapland generally. Depression in far north moving eastward later, and another arriving off our own north-west coasts from the south-westward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The depressions, which have advanced to the north-western coasts of the British Islands and their neighbourhood during the past week, have been slight as regards intensity when compared with the deep and severe disturbances of the week which preceded it; that of the 26th—27th, however, caused gales in the northern districts, with much rain, and it was not until Monday night or Tuesday morning, when anticyclonic conditions were developed over western and central Europe and Russia, that there was a cessation of rain even over our southern and eastern districts.

From this time the weather over our Islands was finer, but the southern parts of France, the northern parts of Italy, Switzerland, and Austria, became the scene of exceedingly heavy rains, due to depressions which were developed over the Mediterranean.

Towards the close of the week, however, these southern disturbances also began to give way, and, as the high-pressure band spread southwards, some large and deep depressions advanced towards Lapland and northern Europe from the Atlantic, and threatened to spread southwards over the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 236.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	18·9	− 1·9	24	− 3	SOUTHPORT	17·6	?	22	?
OSWALDKIRK (Yorkshire)					MANCHESTER (Oldham Road)	11·2*	?	14*	?
WORKSOP	22·2	− 2·5	27	− 3	COLWYN BAY	26·7	?	33	?
THURCASTON (Leicestershire)	18·8	− 4·5	23	− 6	TENBY				
MARGATE	31·1	+ 3·1	38	+ 3	NEWQUAY	23·8	− 7·1	29	− 8
WESTBOURNE (Sussex)	27·0*	− 4·5	33*	− 6	TORQUAY	31·7*	+ 0·7	39*	+ 1
BRIGHTON	35·2	+ 2·2	43	+ 3	ARLEY COTTAGE (County Cavan)	10·9	−11·5	13	− 16
EASTBOURNE	33·4	− 0·1	41	− 1	GUERNSEY	23·8*	− 9·2	29*	− 12

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 41.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 10TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 242.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	28	50·1	39·8	44·9	3 below	30	−12	6	+ 1	2010	+228	312	−323
	1. SCOTLAND, EAST	60	30	50·8	39·1	44·8	3 below	32	−14	8	+ 2	2332	+177	419	−244
	2. ENGLAND, N.E.	61	35	54·8	42·5	48·5	1 below	46	−12	0	− 2	2585	+255	327	−225
	3. ENGLAND, EAST	63	38	59·0	44·4	51·5	1 above	67	+ 1	0	− 3	2908	+220	388	−233
	4. MIDLAND COUNTIES	62	35	56·9	43·1	49·8	0 (average)	55	− 7	0	− 5	2893	+218	372	−255
	5. ENGLAND, SOUTH	64	39	59·4	48·5	53·8	1 above	83	+10	0	− 2	3227	+310	237	−243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	32	51·6	41·3	46·3	3 below	33	−21	2	− 1	2523	+263	236	−231
	7. ENGLAND, N.W.	62	39	54·8	43·9	49·2	2 below	50	−11	0	− 2	2828*	+352	201	−261
	8. ENGLAND, S.W.	62	32	56·5	45·7	51·0	1 below	63	− 5	0	− 1	3123	+398	155	−208
	9. IRELAND, NORTH	59	33	51·4	39·8	45·4	4 below	33	−21	6	+ 4	2647*	+239	168	−230
	10. IRELAND, SOUTH	61	33	53·3	42·7	47·9	3 below	41	−21	0	− 2	3058	+370	89	−214
	—CHANNEL ISLANDS	63	44	59·7	50·6	55·0	0 (average)	91	+ 2	0	0	3621	+539	39	−109

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 242.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	24	12 more	193	+ 6	44·2	+ 6·3	18	0	24	0	902	− 64	24	− 1
	1. SCOTLAND, EAST	6	17	10 more	161	+ 8	21·5	− 3·5	28	+ 7	37	+ 9	1147	− 2	30	0
	2. ENGLAND, N.E.	5	13	6 more	136	− 7	15·8	− 4·0	18	− 4	23	− 5	1102	− 43	29	− 1
	3 ENGLAND, EAST	5	10	3 more	137	− 2	18·2	− 1·6	25	− 1	32	− 2	1326	− 40	35	− 1
	4. MIDLAND COUNTIES	6	12	5 more	137	+ 1	18·4	− 3·0	21	− 1	27	− 1	1179	− 40	32	− 1
	5. ENGLAND, SOUTH	6	14	6 more	126	− 6	18·3	− 3·1	21	− 6	27	− 9	1403	− 29	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	27	16 more	172	+12	36·2	0·0	15	− 7	19	−11	1195	− 23	32	0
	7. ENGLAND, N.W.	7	24	15 more	156	+ 8	27·5	+ 1·5	16	−10	20	−13	1130	− 10	32	0
	8. ENGLAND, S.W.	7	24	13 more	136	−13	23·3	− 5·5	25	− 2	31	− 4	1528*	+ 50	41	+ 1
	9. IRELAND, NORTH	7	17	9 more	178	+ 4	31·7	+ 3·6	15	− 7	19	−10	1052	− 66	28	− 2
	10. IRELAND, SOUTH	7	18	10 more	153	− 3	28·1*	− 1·3	21	− 5	27	− 6	1242	− 29	33	− 1
	—CHANNEL ISLANDS	6	16	6 more	144	−12	19·5	− 4·3	27	− 6	35	− 7	1725	+ 15	47	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was in a very rainy and stormy condition generally. Sleet and hail showers were experienced at many northern and north-western stations both at the beginning and end of the period. Thunder and lightning occurred in several parts of the Kingdom during the earlier days of the week, and again over the north of England at its close.

Temperature was below the mean in most districts, but just equalled it in the Midland counties and the Channel Islands, while in England S. and E. it was a little above it. The highest of the maxima were recorded on rather irregular dates, and ranged from 64° in England S., and 63° in England E. and the Channel Islands, to 58° in Scotland W., and to 57° in Scotland N. The lowest of the minima, which were registered about the middle or end of the week, ranged from 28° in Scotland N., and 30° in Scotland E., to 39° in England S. and N.W., and to 44° in the Channel Islands. By the end of the period temperature had fallen quickly over the northern half of the Kingdom, and the decrease was spreading southwards.

Rainfall exceeded the mean, the fall being more than twice as much as the normal in most of the western and northern districts.

Bright Sunshine was again deficient generally, but equalled the mean in Scotland N., and exceeded it in Scotland E.

Barometer and Wind.—Barometric pressure during this period again changed frequently and considerably, as several important depressions passed over our Islands or their immediate neighbourhood. Two of these systems especially affected the wind and weather. The first was a deep secondary which passed north-eastwards across England on the 6th, causing Southerly to South-Westerly gales on our south and south-east coasts. The other was very large and deep, and appearing off our south-west coasts on the 7th, subsequently moved slowly north-north-eastwards along our western coasts, and occasioned severe Southerly to South-Westerly gales over the whole Kingdom. The rain accompanying this disturbance was very heavy, especially in the west. At the end of the period a rather shallow depression was moving north-eastwards over England, and the winds had become Northerly in all our western and northern districts.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 241 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	35	49·0	41·6	45·2	− 1·9	24	1	7	1·85	+0·99	*	*	*	*
	Stornoway	52	35	49·6	39·4	44·4	− 2·7	28	7	7	2·27	+1·19	24·7	+ 4·2	33	+ 6
	Wick	56	38	50·3	41·6	45·8	− 1·8	28	1	6	0·95	+0·33	*	*	*	*
	Glencarron ℌ	53	28	? 49·8	? 37·3	? 43·4	? − 3·7	?30	?13	6	3·17	+1·25	*	*	*	*
	Fort Augustus ℌ	57	32	51·3	38·2	44·6	− 4·2	34	11	6	3·09	+2·11	13·7	− 0·9	18	− 1
	Fort William ℌ	56	34	50·8	40·9	45·7	− 3·3	31	3	6	3·02	+1·26	15·4	− 4·0	20	− 5
1. SCOTLAND, E.	Nairn	60	37	51·1	40·7	45·8	− 2·2	32	4	4	0·95	+0·33	*	*	*	*
	Aberdeen	57	33	52·1	41·7	46·8	− 1·8	35	1	4	0·64	−0·08	29·3	+ 6·5	39	+ 8
	Braemar ℌ	53	31	47·6	36·9	41·6	− 3·4	16	24	6	2·08	+1·28	28·8†	+ 9·2†	38†	+13†
	Ochtertyre ℌ	57	30	51·1	37·0	43·8	− 4·6	34	14	7	2·53	+1·62	*	*	*	*
	Leith	59	38	53·0	42·0	47·3	− 2·7	37	0	7	1·23	+0·74	*	*	*	*
	Marchmont ℌ	56	31	50·1	37·1	43·4	− 4·4	30	14	6	2·65	+1·85	27·5	+ 6·7	36	+ 9
2. ENGLAND, N.E.	Alnwick Castle	57	38	52·1	42·7	47·3	− 1·4	37	0	4	1·17	+0·44	*	*	*	*
	Durham	59	35	53·2	38·8	45·8	− 3·1	40	9	6	1·60	+0·94	20·1	− 1·9	26	− 2
	Shields	60	38	55·7	42·9	49·1	− 0·6	50	0	4	1·25	+0·69	*	*	*	*
	Scarborough ℳ	59	39	53·5	42·7	47·9	− 2·6	41	0	4	1·50	+0·80	*	*	*	*
	York	60	39	56·1	42·1	48·9	− 0·9	48	0	6	1·42	+0·81	19·9	− 2·6	26	− 3
	Spurn Head	61	41	57·9	45·9	51·7	0·0	68	0	5	0·64	+0·11	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	63	38	58·8	43·8	51·1	+ 0·5	64	0	5	1·19	+0·55	24·2	−0·1	31	− 1
	Yarmouth	61	41	57·7	46·1	51·7	− 0·2	68	0	4	0·76	+0·05	*	*	*	*
	Geldeston	62	39	59·2	44·4	51·6	0·0	67	0	6	0·75	+0·10	21·1	−7·1	27	−10
	Cambridge	63	40	60·6	43·9	52·0	+ 1·1	70	0	5	0·53	−0·02	28·1	+2·0	36	+ 2
	Rothamsted	61	39	58·8	43·6	51·0	+ 0·9	63	0	6	1·54	+0·84	26·8	+0·4	35	+ 1
4. MIDLAND COUNTIES	Harrogate ℳ	59	38	53·5	42·2	47·7	− 1·6	40	0	6	1·62	?	17·3	?	22	?
	Bawtry (Hesley Hall)	61	38	57·7	41·1	49·2	− 0·6	54	3	6	0·78	+0·13	*	*	*	*
	Loughborough	61	40	58·4	44·4	51·2	+ 0·4	64	0	7	1·12	+0·48	*	*	*	*
	Stamford (Ketton Hall)															
	Cheadle ℳ	58	36	55·3	40·6	47·7	− 1·4	46	4	6	1·04	+0·34	*	*	*	*
	Shirley (near Solihull)	59	38	57·1	43·5	50·1	− 0·5	57	0	7	0·94	?	*	*	*	*
	Churchstoke ℳ															
	Hereford ℳ	61	37	58·2	45·6	51·7	+ 1·5	68	0	6	0·79	+0·12	*	*	*	*
	Cirencester	60	35	56·1	41·4	48·5	− 1·1	48	2	5	1·91	+1·17	20·6	− 2·8	27	− 4
	Oxford	62	42	59·1	45·9	52·3	+ 1·5	72	0	5	1·60	+0·95	25·6	+ 0·6	33	0
5. ENGLAND, S.	London	64	42	60·1	46·3	53·0	+ 1·4	77	0	4	0·95	+0·32	24·6†	+5·2†	32†	+ 5†
	North Foreland	63	44	59·7	49·7	54·6	+ 1·2	88	0	4	0·56	?	*	*	*	*
	Dungeness	62	46	60·6	51·7	56·0	+ 2·7	98	0	7	1·25	+0·47	*	*	*	*
	Hastings (St. Leonards)	61	45	59·3	47·9	53·4	+ 0·5	80	0	6	1·73	+0·88	13·6	−16·7	17	−23
	Southampton	62	43	60·0	47·4	53·5	+ 0·7	81	0	6	2·34	+1·56	28·0	+ 1·0	36	0
	Hurst Castle	62	47	59·4	51·3	55 2	+ 1·8	92	0	5	1·16	+0·37	*	*	*	*
	Stowell ℳ	60	39	56·9	45·3	50·9	− 0·3	62	0	7	1·79	+0·97	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	56	32	51·6	40·5	45·9	− 3·0	34	4	7	2·56	+0·78	*	*	*	*
	Glasgow	55	36	49·9	39·5	44·6	− 3·2	29	7	7	2·73	+1·88	12·9	− 4·1	17	− 7
	Ardrossan	55	41	50·9	44·1	47·4	− 2·9	38	0	7	2·39	+1·57	*	*	*	*
	Glenlee ℌ	57	36	52·1	38·6	45·2	− 3·4	37	9	7	2·55	+1·28	*	*	*	*
	Douglas (Isle of Man)	58	39	53·6	43·6	48·5	− 1·4	46	0	7	3·36	+2·46	16·5	−10·6	21	−15
7. ENGLAND, N.W.	Stonyhurst	59	40	52·5	42·6	47·4	− 2·1	38	0	7	2·36	+1·22	17·4	− 5·6	23	− 7
	Blackpool ℳ	60	42	54·2	44·5	49·2	− 1·7	50	0	7	2·59	+1·63	8·4	−14·1	11	−19
	Manchester (Prestwich)	60	39	56·7	42·0	49·1	− 0·7	50	0	6	2·03	+1·13	15·6	?	20	?
	Liverpool Obsy. (Bidston)	60	40	55·1	44·7	49 8	− 1·3	55	0	7	1·97	+1·12	*	*	*	*
	Llandudno ℳ	62	41	56·7	45·4	50·9	− 1·3	62	0	7	2·52	+1·65	*	*	*	*
	Holyhead	58	42	53·3	44·4	48·7	− 4·1	47	0	7	2·94	+2·04	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	32	56·6	40·9	48·5	− 2·3	50	3	7	2·53	+1·34	*	*	*	*
	Pembroke	57	44	54·0	47·3	50·7	− 2·2	61	0	7	2·95	+2·04	20·2	− 5·8	26	− 8
	Clifton	60	41	56·8	46·7	51·6	+ 0·8	67	0	7	2·96	+2·09	*	*	*	*
	Arlington (N. Devon)	59	39	54·1	44·1	49·0	− 2·4	49	0	7	2·76	+1·56	*	*	*	*
	Cullompton ℳ	62	41	58·9	45·8	52·2	− 0·1	71	0	6	1·73	+0·83	24·9	+1·2	32	+ 1
	Falmouth	60	43	57·2	47·7	52·3	− 1·3	72	0	7	2·14	+0·96	26·6	− 2·4	34	− 3
	Plymouth	60	44	57·7	48·5	53·0	+ 0·1	77	0	6	1·48	+0·55	24·7	− 1·5	32	− 4
	Prawle Point	59	40	56·6	44·4	50·3	− 3·4	58	0	7	?	?	*	*	*	*
9. IRELAND, N.	Malin Head	55	40	51·3	43·0	47·0	− 3·1	35	0	7	2·11	?	*	*	*	*
	Londonderry	57	38	49·7	40·4	44·9	− 4·9	27	4	7	1·90	+0·95	*	*	*	*
	Edenfel (Omagh)	55	36	49·6	39·4	44·4	− 2·7	28	7	7	1·85	+1·00	*	*	*	*
	Belmullet	53	41	50·9	43·0	46·8	− 4·1	34	0	7	2·39	+1·29	*	*	*	*
	Markree Castle	59	33	52·5	38·4	45·2	− 3·8	38	10	7	2·02	+1·05	14·5	− 6·7	19	− 9
	Armagh	57	34	51·0	38·8	44·7	− 4·1	32	9	6	1·20	+0·55	13·2	− 9·8	17	−13
	Donaghadee	57	37	52·6	40·7	46·5	− 3·8	37	4	5	0·90	+0·23	*	*	*	*
	Edgeworthstown	59	33	52·8	35·0	43·6	− 5·2	41	20	7	1·15	+0·47	*	*	*	*
10. IRELAND, S.	Dublin	61	40	54·9	42·8	48·7	− 2·2	47	0	6	0·96	+0·37	25·0	− 2·0	32	− 4
	Parsonstown	59	37	52·4	41·0	46·5	− 2·1	36	3	7	1·40	+0·65	19·1	− 5·4	25	− 6
	Kilkenny	59	33	53·4	40·4	46·7	− 4·4	40	4	7	1·39	+0·78	*	*	*	*
	Roche's Point	60	41	54·4	45·3	49·7	− 2·5	54	0	7	2·50	+1·67	*	*	*	*
	Valencia	60	42	53·3	44·3	48·7	− 4·2	47	0	7	2·42	+1·26	18·0	− 7·3	23	−10
	Killarney								0			?	*	*	*	*
	Foynes	59	38	51·5	42·3	46·8	− 3·5	34	0	7	2·18	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	60	44	58·1	47·7	52·8	− 2·1	76	0	6	1·84	+0·94	20·3	?	39	?
	Jersey	63	48	61·3	53·4	57·2	+ 1·3	106	0	5	1·28	+0·29	24·3	− 7·3	31	−11

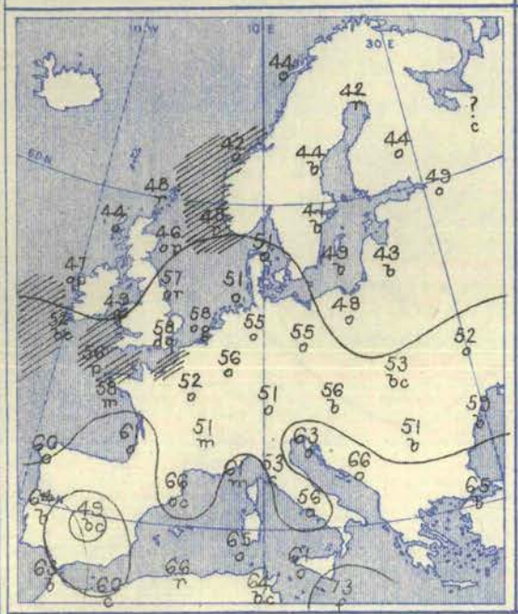
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

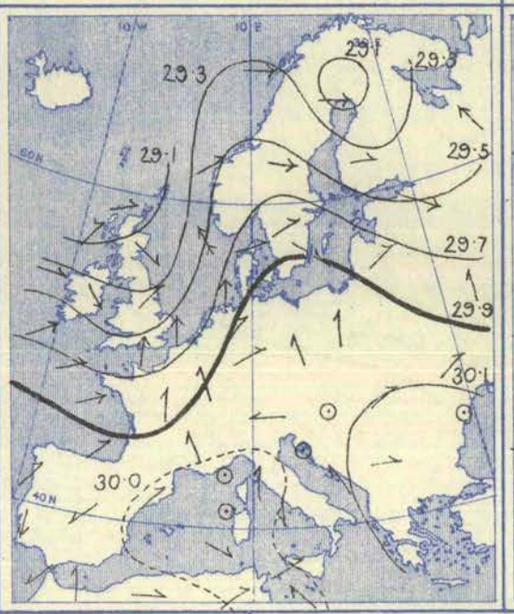
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 4th October.

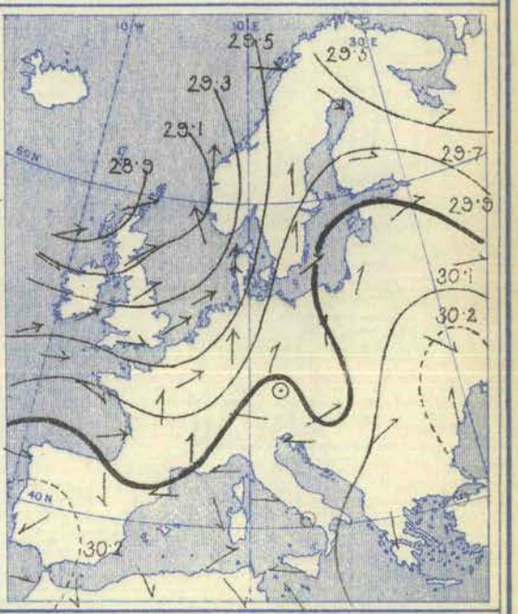
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and showery over north-western Europe as a whole, but fine in the south of Ireland. Fine at most of the Swedish stations, as well as in Spain, the south of France, Austria, and the central and southern parts of Russia. Dull in Germany and northern Russia, and also in Italy. Sky clearing later in Scotland, but hail or rain showers falling in other parts of our Islands; rain occurring also over the western, northern, and central parts of the Continent. Thunderstorm reported at Holyhead in evening, and lightning seen at Valencia (Ireland).

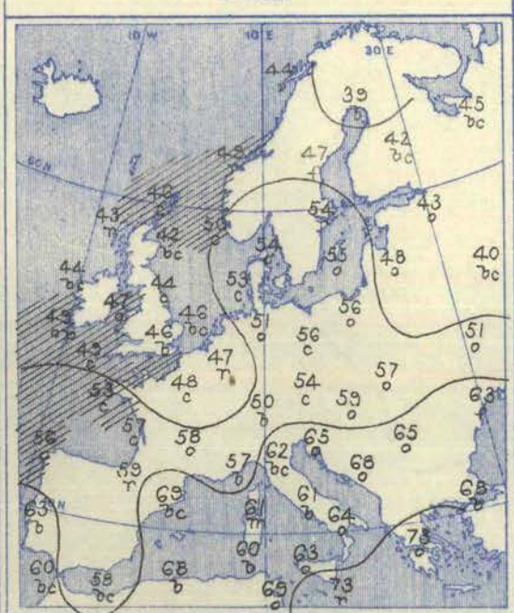
Temperature risen over England, France, and Germany, but fallen in most other countries. Morning readings highest, 73° at Malta, 68° at Sfax, and 66° at Barcelona, Lesina, and Algiers; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, 42° at Haparanda and Christiansund, 43° at Uleaborg and Riga, and 44° at several other stations in northern Europe, as well as at Stornoway. Daily maxima below 55° in Ireland and Scotland, but slightly above 60° in the south of England. Exceeding 70° over southern Europe generally; reaching 82° at Palermo and 84° at San Fernando.

Wind moderate to strong from the Westward in the western parts of our Islands and France, but from the Southward in the eastern and central parts of England, as well as in the Netherlands and Germany. Westerly over Scandinavia and northern Russia generally, but blowing a gale from South-East at Skudesnaes. Calm or variable over Austria, Italy, and the south of Russia; North-Easterly in Spain. Subsequently backing to the South-Westward on many parts of our western coasts, and increasing in force; Southerly gales setting in over Denmark and the south of Norway.

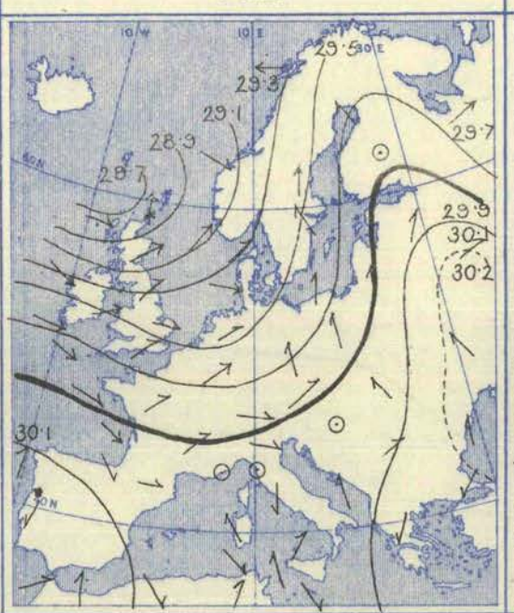
Barometer highest, 30·1 ins. and upwards in a large anticyclone lying over south-eastern Europe; 30·0 ins. and upwards over the southern and eastern parts of the Continent generally. Lowest, 29·1 ins. and less in two well-marked depressions—one lying over Lapland, and the other off the north of Scotland. Former disturbance subsequently moving away to the north-eastward, latter system becoming deeper; small secondary depressions moving eastwards during day across Ireland and England.

Monday, 5th October.

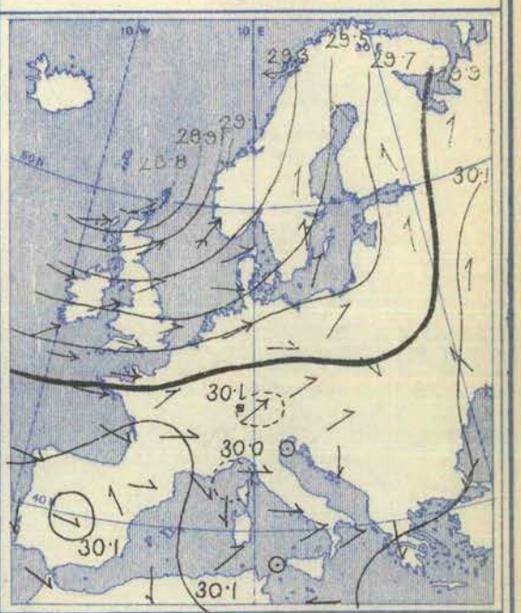
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the eastern parts of the United Kingdom, but showery in the west. Cloudy or dull over the greater part of the Continent, with rain at many of the northern and central stations. Fine over the Spanish Peninsula and the western parts of the Mediterranean. Rain falling during day over nearly the whole of western, northern, and central Europe, heavily in places; sleet or hail reported at several of our own western stations, and snow at Stornoway. Thunderstorms or lightning only occurring in many parts of England and Ireland, as well as in Denmark, north Germany, and the south of Norway.

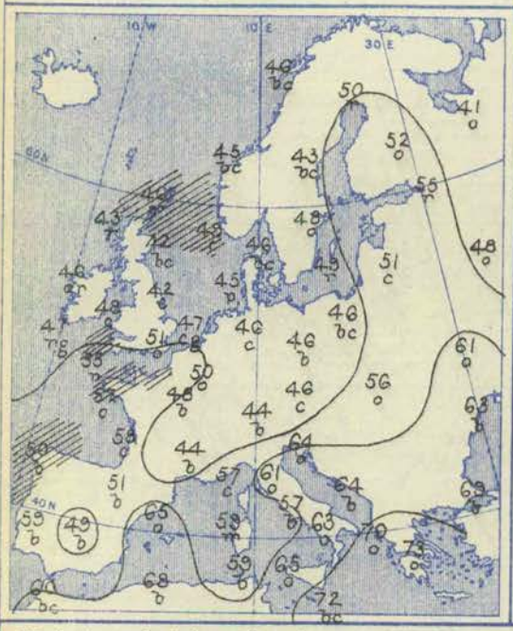
Temperature fallen in our Islands and their immediate neighbourhood, risen in most other localities. Morning readings highest, 73° at Athens and Malta, 71° at Patras, and 69° at Barcelona and Sfax; above 65° in many parts of southern Europe. Lowest, (1) 38° at Uleaborg, 39° at Haparanda, and 40° at Moscow; (2) 41° at Donaghadee and Parsonstown. Daily maxima below 50° on several parts of our own north and north-west coasts, and below 55° at all but our extreme southern stations. Thermometer exceeding 70° over southern Europe generally, and reaching 77° at Barcelona, Madrid, Brindisi, and Palermo.

Wind very strong from the Westward or North-Westward over the western parts of our Islands, and France; moderate from the South-Westward on our eastern coasts, as well as over the Netherlands, Germany, and the north-east of France; moderate to strong from the Southward over the Baltic and Scandinavia. Rather variable over southern and south-eastern Europe as a whole, but Northerly in Portugal, and also in Greece. Subsequently backing towards the South-Westward at several of our own western stations; no decided change occurring elsewhere.

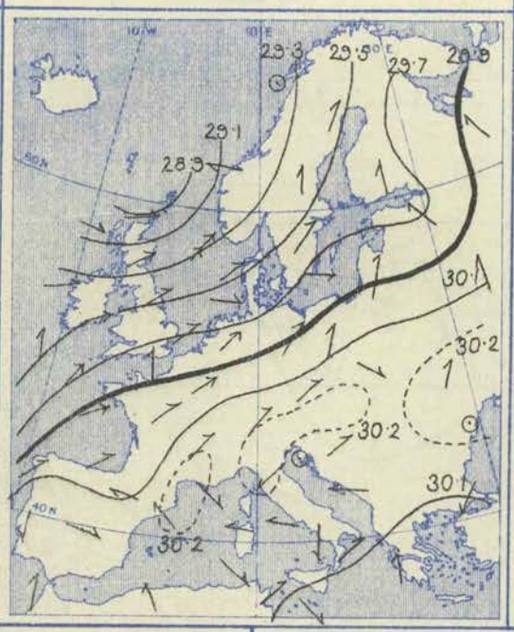
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the central and southern parts of Russia, 30·1 ins. and upwards in another system over the Spanish Peninsula. Lowest, 28·7 ins. and less in a deep depression having its centre off the north of Scotland; gradients steep over the north of our Islands, and rather steep over north-western and northern Europe generally. Depression subsequently moving north-eastwards, and barometer rising over the whole Kingdom.

Tuesday, 6th October.

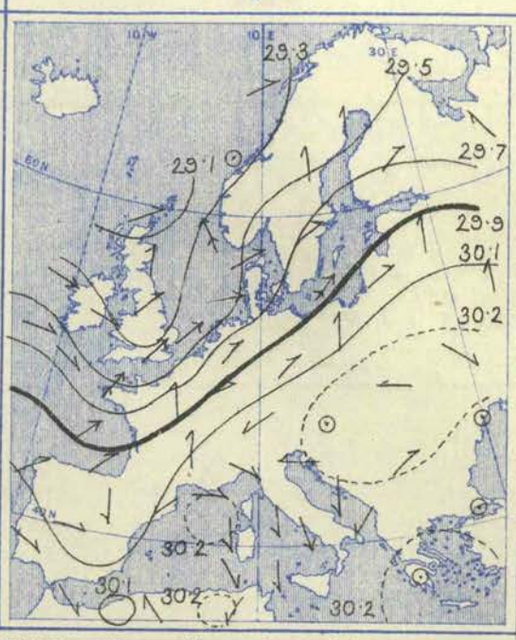
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the eastern parts of Great Britain, but rainy at all our south-western stations, as well as in the Shetlands and Hebrides. Fine over Spain, France, Germany, and northern Italy, as well as in the west of Norway; cloudy in most other parts of the Continent, with rain in many parts of Denmark, Sweden, and northern Russia. Rain falling later over northern and north-western Europe generally—heavily in places. Lightning seen at night at Skudesnaes, Wick, and Spurn Head.

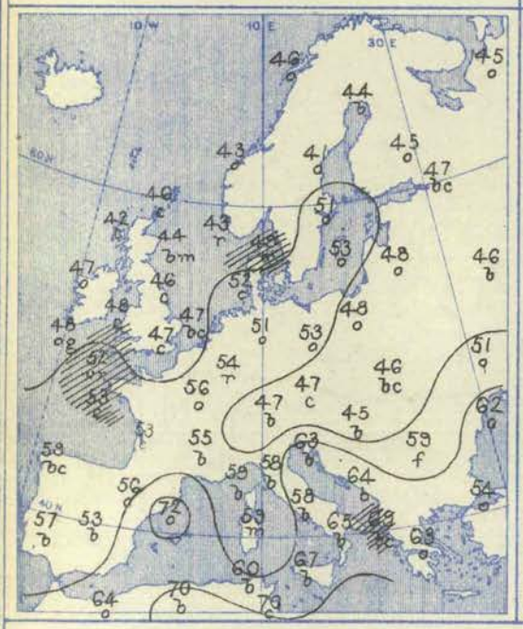
Temperature risen slightly in our Islands, and briskly in Russia, fallen in most other countries. Morning readings highest, 73° at Patras, 72° at Malta, and 71° at Athens; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 41° at Leith and Donaghadee, and 42° at Nairn, Aberdeen, Shields, and Parsonstown; (2) 41° at Archangel, and 43° at Hernösand; (3) 44° at Wiesbaden, Munich, Belfort, and Lyons. Daily maxima below 50° at most of our north-western stations, and below 55° in all but the extreme southern parts of the Kingdom. Rising to between 70° and 75° in most parts of southern Europe. Ground frost occurring at night at some of our own northern and central stations.

Wind Southerly or South-Westerly over western, northern, and central Europe generally; light to fresh in force in most places, but strong to a gale in the south of Norway. Calm or variable over the southern and south-eastern countries. Subsequently increasing to a fresh or strong gale over the Channel and south-east of England, as well as at some of the Baltic stations. Veering to the Westward or South-Westward on our own western coasts.

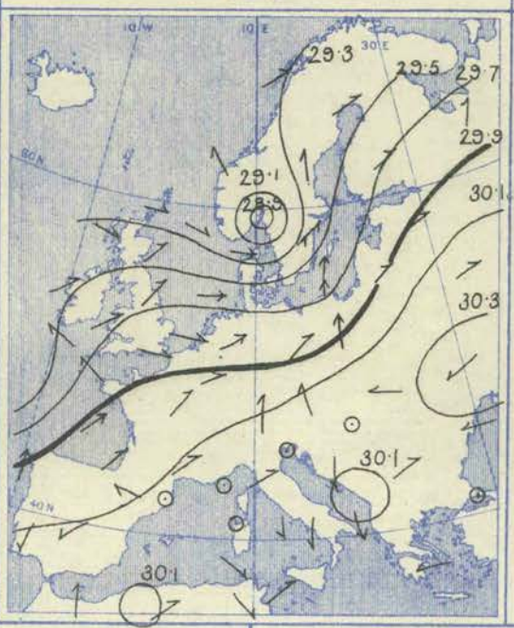
Barometer highest, 30·2 ins. and upwards in three areas—one lying over the south of Russia, another over south Germany and the neighbouring parts of Austria and Italy, and the third over the south of France. Lowest, 28·9 ins. and less in a depression lying off the north of Scotland. Depression subsequently moving away to the northward; "V-shaped" secondary system advancing north-eastwards across England; other small secondary disturbances forming over the North Sea

Wednesday, 7th October.

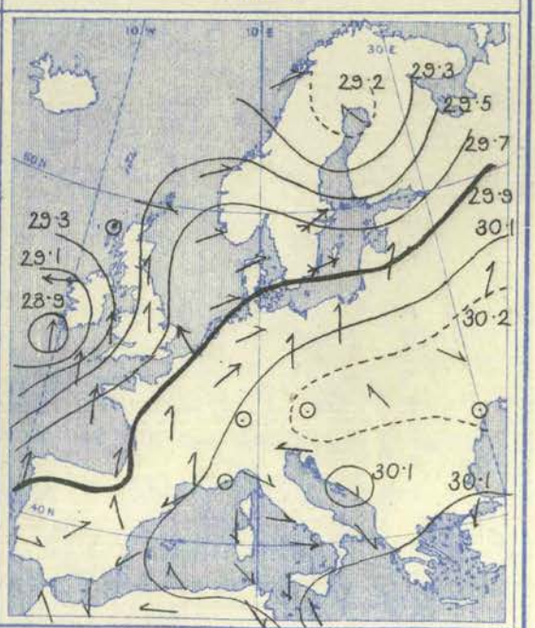
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the northern and eastern parts of our Islands generally, but showery at Ardrossan and Malin Head; dull on our south-west coasts, with slight rain at Scilly. Fine in most of the southern countries, and also over central Russia; cloudy over the northern and central parts of the Continent, with rain in the south of Scandinavia and also at Ulcaborg, Münster, and Brussels. Rainy weather spreading later over the whole of our Islands and their immediate neighbourhood; amounts large at many western stations; lightning seen at Valencia.

Temperature fallen over England as well as over the eastern parts of the Continent. Morning readings highest, 72° at Barcelona and Palma, 70° at Algiers and Sfax, and 69° at Brindisi; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 41° at Donaghadee and Parsonstown, and 42° at Stornoway and York; (2) 41° at Hernösand; (3) 42° at Cracow and 43° at Warsaw. Rising later to between 60° and 63° over the greater part of England, and also in the south of Ireland; exceeding 70° in most parts of southern Europe; reaching 82° at Biarritz and 84° at San Fernando.

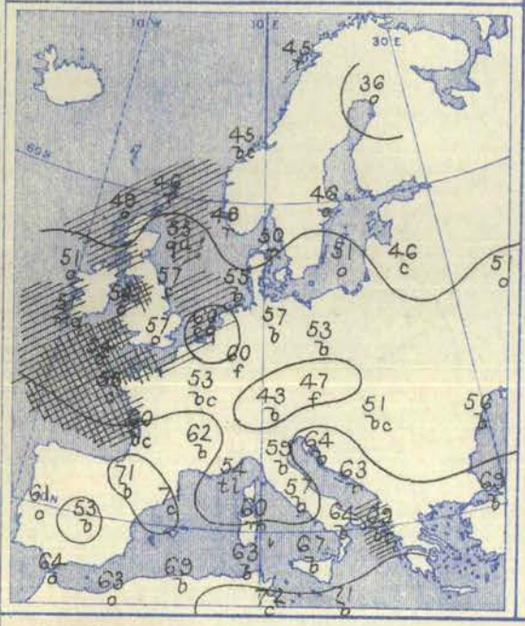
Wind moderate from the Westward or South-Westward over the greater part of our Islands, the Netherlands, and the north of France, but from the South-Eastward on our extreme south-west coasts. Strong to a gale from West in Denmark, and from the Southward over north Germany, the Baltic, and the south of Scandinavia; moderate from the South-Westward over the northern parts of Russia and Scandinavia. Calm in Austria and the south of Russia, as well as in the extreme south of France; Northerly or North-Westerly in Italy, North-Easterly in Spain. Subsequently increasing to a gale from the Southward over Great Britain, and from the South-Eastward or Eastward in Ireland.

Barometer highest, 30·3 ins. and upwards in the south of Russia; 30·1 ins. and upwards over the southern and eastern parts of Europe generally. Lowest, 28·9 ins. and less in a small but deep depression with its centre near Christiania; 29·2 ins. and less in a shallow system off the north of Scotland; 29·5 ins. and less in another disturbance approaching our south-west coasts. Norwegian depression subsequently moving north-eastwards. New disturbance in south-west proving large and deep, and barometer falling rapidly.

Thursday, 8th October.

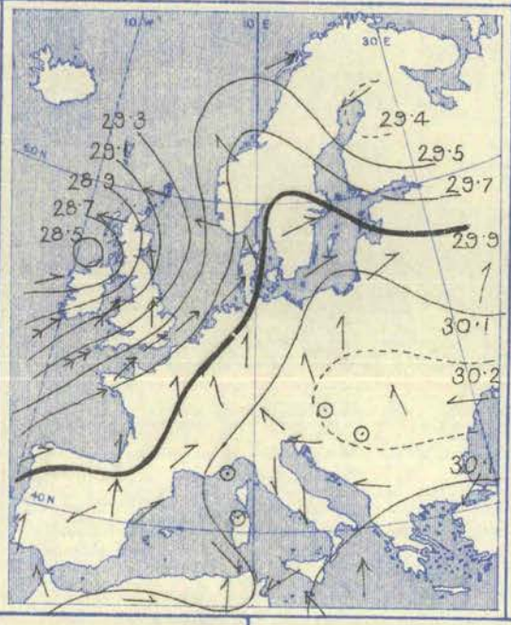
Temperature and Weather.

8 a.m.

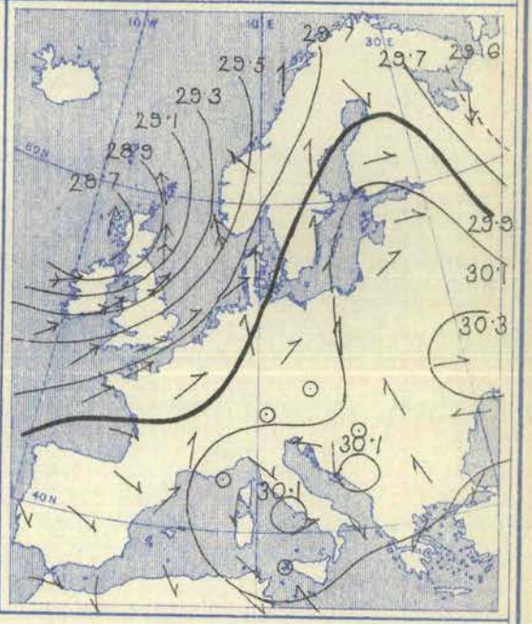


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and squally over the United Kingdom generally, with showers in a few places; rain falling at some of the Norwegian and Danish stations. Fine in nearly all other parts of Europe, but with fog in places; thunderstorm reported at Toulon. Rain falling during day in the west and north of our Islands generally, as well as at some of the French, Danish, and Scandinavian stations. Lightning seen at Valencia (Ireland) at night.

Temperature risen in most of the western and central countries, but fallen slightly elsewhere. Morning readings highest, 73° at Bilbao, 72° at Palma and Stax, and 71° at Biarritz, Barcelona, and Malta; above 60° in many parts of southern Europe, and also on the south-east coasts of England. Lowest, (1) 42° at Cracow, and 43° at Munich; (2) 45° at Bodö and Christiansund, and 46° at Riga, Stockholm, and Sumburgh Head. Rising during day to 60° or a little more in most parts of Great Britain, but not exceeding 55° in Ireland. Reaching 70° or more in most parts of France and southern Europe, the highest readings of all being 82° at Perpignan and Bilbao, and 81° at Biarritz.

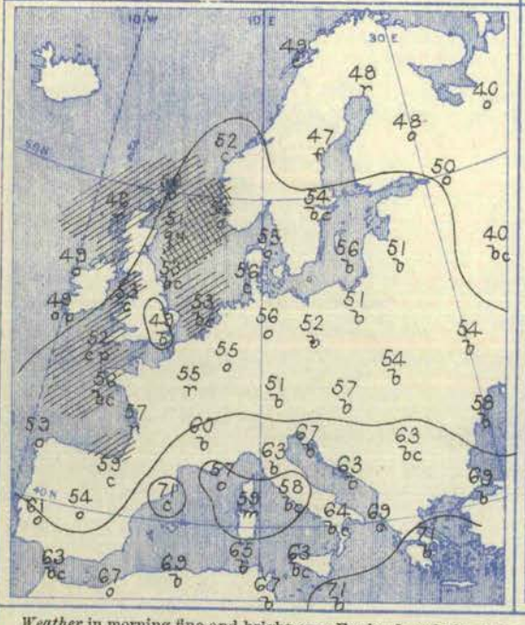
Wind strong to a gale from the Southward or South-Westward over the greater part of our Islands, but from the Eastward in the Shetlands and Hebrides, as well as in the south of Norway. Light to fresh from the Southward (South-East to South-West) over the western parts of the Continent generally, calm or variable in Austria, light from the North-Eastward in the south of Russia, and also over northern Italy. Gale moderating later on all our more southern coasts, but continuing to blow hard from South or South-West in the north, and gale spreading to the west of Norway.

Barometer highest, 30·2 ins. and upwards over Austria and the south of Russia. Lowest, 28·5 ins. and less in a deep depression with its centre off the north-west of Ireland; 29·4 ins. in another well-marked disturbance over Lapland. Depression off Irish coasts travelling slowly northwards during day, and barometer rising in all but the extreme northern parts of the United Kingdom. Disturbance over Lapland moving away to the eastward.

Friday, 9th October.

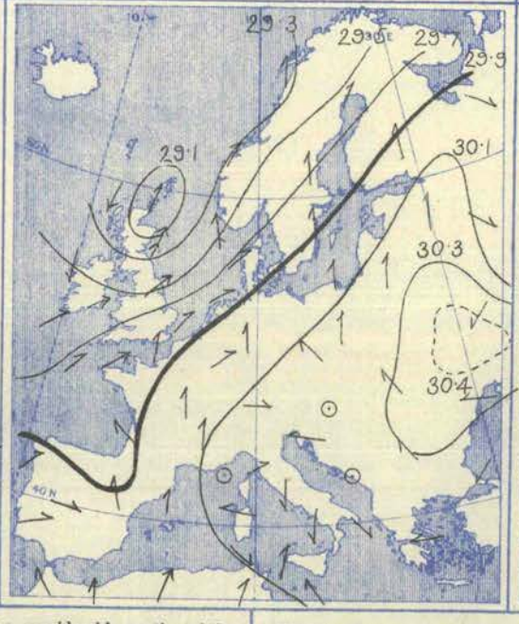
Temperature and Weather.

8 a.m.

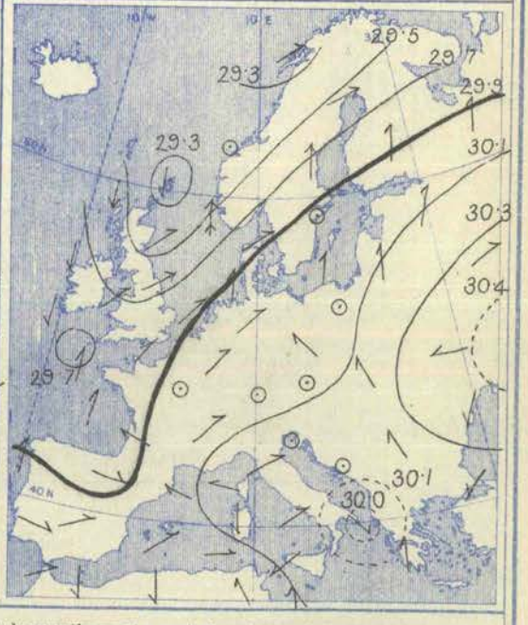


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over England, and also over a considerable portion of the Continent. Dull and rainy in many parts of Ireland and Scotland, France and the Netherlands; dull also over Norway and the northern parts of Sweden and Russia, with rain at Haparanda. Rain falling later over nearly the whole of western Europe, heavily in places. Thunderstorm occurring at Bordeaux, and lightning seen at Biarritz.

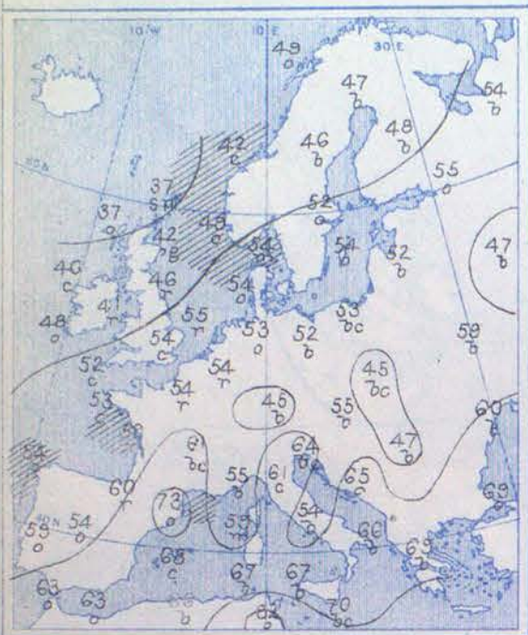
Temperature fallen in our Islands and France, but risen in most other countries. Morning readings highest, 71° at Barcelona, Patras, and Malta, and 69° at Athens, Constantinople, and Algiers; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 40° at Archangel and Moscow, and 45° at Ulealborg; (2) 46° at Stornoway and Parsonstown, and 48° at Donaghadee and Loughborough. Rising during day to 60° and upwards at most of the English stations, but remaining below 50° in the Hebrides and the north-west of Ireland. Reaching 70° at Berlin, and exceeding that point in most parts of southern Europe, the highest reading of all being 77° at Palermo.

Wind Southerly or South-Westerly over the greater part of western and northern Europe, but Northerly in the Hebrides and the extreme north-west of Ireland; strong to a gale in force over the Irish Sea and the south and east of Scotland, as well as in the south of Norway. North-Easterly in the south of Russia, Northerly or North-Westerly in Italy, Westerly over the greater part of the Spanish Peninsula. Subsequently shifting to the Northward over Ireland and Scotland generally, gale in latter country subsiding gradually.

Barometer highest, 30·4 ins. and upwards over the south of Russia, 30·1 ins. and upwards in an anticyclone embracing a considerable portion of eastern and southern Europe. Lowest, 29·1 ins. and less in a well-marked depression over the north of Scotland; gradients steep over the North Sea and the northern parts of Great Britain, and rather steep over Scandinavia and northern Russia. Depression subsequently moving north-eastward, and gradually filling up. New but shallow disturbance appearing off our extreme south-west coasts in evening.

Saturday, 10th October.

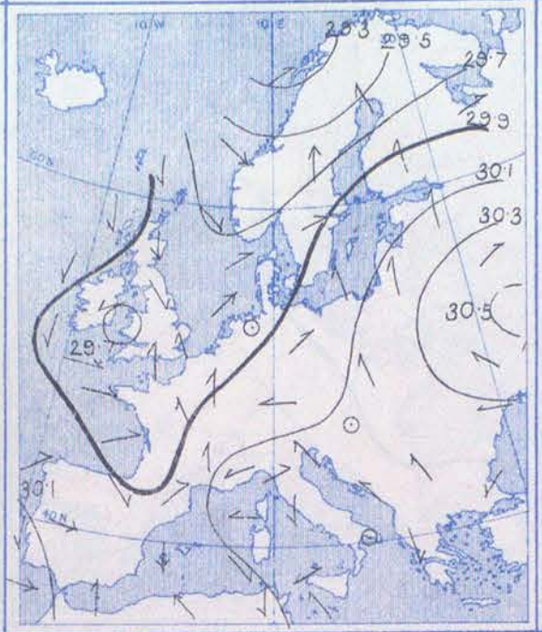
Temperature and Weather. 8 a.m.



Weather in morning rainy over the northern parts of England and Wales, as well as at many of the French stations; changeable and showery in most other parts of western Europe. Fine over the eastern, central, and southern countries as a whole, but dull in Spain. Rain falling during day in nearly all parts of western Europe—heavily in the north of England, and also in France; snow reported in the north of Scotland. Thunderstorms occurring in the north of England, and lightning seen in many other parts of the country.

Temperature falling in most places. Morning readings highest, 82° at Sfax, 73° at Barcelona and Algiers, 70° at Malta, and 69° at Patras, Constantinople, and La Calle; above 60° at most of the Mediterranean and Adriatic stations. Lowest, 37° at Sumburgh Head and Stornoway, 40° at Wick and Parsonstown, and 41° at Nairn; below 45° at many of our own northern stations. Daily maxima below 45° in the north of Scotland, and below 50° in the north and north-west of our Islands generally. Thermometer exceeding 60° at some of our southern and eastern stations, exceeding 65° in Germany, and exceeding 70° in many parts of southern Europe. Frost occurring in the north of Scotland at night.

Barometer and Wind. 8 a.m.



6 p.m.

Wind light to fresh from the Northward in Ireland and Scotland, and from the Westward or South-Westward over the Channel and Bay of Biscay; light from South or South-East over the eastern and central parts of England, as well as in the east of France, Germany, and the Netherlands. Fresh or strong from the North-Westward in the west of Norway, but from the Southward or South-Westward over Sweden and northern Russia. Easterly in the south of Russia; variable in Austria and Italy, and also in Portugal, but chiefly Westerly in Spain. Subsequently increasing to a moderate gale from the Northward on our north-east and north-west coasts; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in the south of Russia; 30·1 ins. and upwards in an anticyclone covering all the more south-eastern parts of the Continent, as well as in another system off the south-west of Spain. Lowest, 29·3 ins. and less in a depression off the north-west of Norway; 29·7 ins. and less in a shallow system over Wales. Latter disturbance subsequently travelling in an east-north-easterly direction across England, and becoming somewhat deeper.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze, and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the weather in all but the extreme southern and south-eastern countries was again influenced by some large depressions which advanced from the Atlantic, and which occasioned gales and heavy rains in nearly all places. At the commencement of the time the storm centres skirted the north of Scotland and passed away to the north-eastward, but on the 6th a "V-shaped" secondary depression travelled north-eastwards directly across England, and occasioned a strong gale from the southward or south-westward over the Channel and our south-eastern counties.

The most important disturbance observed was, however, that of the 7th to 9th. In this case the centre of the system moved in a north-north-easterly direction along the Irish and Scotch coasts, its passage being accompanied by strong Southerly to South-Westerly gales over the whole Kingdom, with heavy rain, and with a very rough sea, especially in the west. Towards the close of the week the disturbance passed on to Norway and filled up, but on the 10th a new, although much shallower, depression moved eastwards across England, and produced heavy rains and thunderstorms over our northern counties. In the rear of this system the wind blew hard from the Northward on our north-east and north-west coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 242.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	26·2	+ 6·5	34	+ 7	SOUTHPORT	17·6	?	23	?
OSWALDKIRK (Yorkshire)	13·8	- 8·2	18	- 10	MANCHESTER (Oldham Road)	11·9*	?	15*	?
WORKSOP	18·8	- 3·7	24	- 4	COLWYN BAY	23·8	?	30	?
THURCASTON (Leicestershire)	22·9	+ 1·2	30	+ 2	TENBY	23·5	- 4·5	30	- 6
MARGATE	13·8	-12·2	18	- 16	NEWQUAY	27·5	- 1·0	35	- 2
WESTBOURNE (Sussex)	28·2*	- 0·6	36*	- 1	TORQUAY	24·2*	- 4·0	31*	- 5
BRIGHTON	25·4	- 4·5	33	- 6	ARLEY COTTAGE (County Cavan)	16·6	- 1·6	22	- 0
EASTBOURNE	13·1	-17·6	17	- 23	GUERNSEY	26·5*	- 3·5	34*	- 4

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 42.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 17TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 248.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	26	48·5	34·0	41·0	5 below	18	−17	31	+23	2028	+211	343	−300
	1. SCOTLAND, EAST	62	24	48·7	34·1	41·2	5 below	19	−21	31	+22	2351	+156	450	−222
	2. ENGLAND, N.E.	58	33	49·5	41·9	45·5	3 below	25	−20	0	− 4	2610	+235	327	−229
	3. ENGLAND, EAST	58	34	52·1	42·4	47·1	2 below	36	−17	0	− 5	2944	+203	388	−238
	4. MIDLAND COUNTIES	58	30	49·7	40·1	44·8	3 below	28	−20	5	− 3	2919*	+196	377	−258
	5. ENGLAND, SOUTH	60	34	52·7	42·9	47·7	3 below	40	−20	0	− 4	3267	+290	237	−247
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	25	49·6	35·4	42·3	6 below	30	−15	18	+12	2553	+248	254	−219
	7. ENGLAND, N.W.	59	32	50·8	41·1	45·8	4 below	30	−19	3	0	2858	+333	204	−261
	8. ENGLAND, S.W.	58	25	51·3	40·3	45·6	5 below	32	−26	5	+ 3	3155	+372	160	−205
	9. IRELAND, NORTH	57	28	50·6	38·2	44·2	4 below	31	−16	11	+ 7	2678	+253	179	−223
	10. IRELAND, SOUTH	56	29	51·0	37·8	44·2	6 below	33	−21	12	+ 8	3091	+349	101	−206
	—CHANNEL ISLANDS	57	38	53·1	45·0	48·9	5 below	48	−30	0	0	3669	+509	39	−109

Rainfall.

	DISTRICTS. (See p. 248.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	8 less	193	+ 4	44·6	+ 5·4
	1. SCOTLAND, EAST	3	4	4 less	164	+ 7	21·9	− 3·9
	2. ENGLAND, N.E.	7	18	12 more	143	− 4	17·6	− 2·9
	3 ENGLAND, EAST	7	13	6 more	144	+ 1	19·5	− 0·9
	4. MIDLAND COUNTIES	6	7	1 more	143	+ 3	19·3*	− 2·8
	5. ENGLAND, SOUTH	6	9	1 more	132	− 3	19·2	− 2·9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	9 less	174	+10	36·5	− 0·8
	7. ENGLAND, N.W.	2	4	5 less	158	+ 6	27·9	+ 1·0
	8. ENGLAND, S.W.	5	6	4 less	141	−12	23·9	− 6·0
	9. IRELAND, NORTH	4	4	4 less	182	+ 4	32·1	+ 3·1
	10. IRELAND, SOUTH	2	2	6 less	155	− 5	28·3	− 1·9
	—CHANNEL ISLANDS	7	16	7 more	151	−10	21·1	− 3·6

Bright Sunshine.

	DISTRICTS. (See p. 248.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	18	+ 1	24	+ 1	920	− 62	24	− 1
	1. SCOTLAND, EAST	16	− 3	22	− 5	1163	− 5	30	0
	2. ENGLAND, N.E.	16	− 4	21	− 6	1117	− 48	29	− 1
	3 ENGLAND, EAST	7	−17	9	−23	1333	− 57	35	− 1
	4. MIDLAND COUNTIES	15	− 7	20	−19	1196*	− 47	32	− 1
	5. ENGLAND, SOUTH	12	−13	15	−19	1415	− 42	37	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	29	+ 9	40	+12	1224	− 14	32	0
	7. ENGLAND, N.W.	26	+13	35	+18	1156	+ 3	32	0
	8. ENGLAND, S.W.	24	− 1	32	− 1	1552	+ 50	41	+ 1
	9. IRELAND, NORTH	36	+15	48	+20	1088	− 51	28	− 2
	10. IRELAND, SOUTH	32	+ 8	43	+11	1274	− 21	33	− 1
	—CHANNEL ISLANDS	20	− 6	27	− 9	1745	+ 8	46	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was much finer than for some time past over Ireland and Scotland, but was again very unsettled and rainy over England. Snow and sleet showers were experienced in Scotland and the north of England on the 11th. A sharp thunderstorm occurred over the east of England during the early morning of the 14th, accompanied by heavy hail. At Bungay the storm was of exceptional severity, and the hailstones extremely large.

Temperature was below the mean, the deficit ranging from 2° in England E. to 4° or 5° in most of the western and northern districts, and to 6° in Scotland W. and Ireland S. The highest of the maxima, which were recorded either on the 14th or 15th, ranged from 62° in Scotland E., and 60° in England S. to 55° in Scotland W. The lowest of the minima were registered on the 11th or 12th, when the thermometer fell to 24° in Scotland E., 25° in Scotland W. and England S.W., 26° in Scotland N., to 28° or 29° in Ireland, and to 30° in the Midland Counties. Elsewhere the minima ranged from 33° in England N.E. to 38° in the Channel Islands.

Rainfall was greatly in excess of the mean in the north-east and east of England, and in the Channel Islands, and slightly so in the Midland counties and England S. In all other parts of the Kingdom, however, there was a deficit, that in the north and west of Scotland and in the south of Ireland being very marked. In some parts of England N.E. the rain was very heavy and persistent; at Alnwick Castle the total fall for the week amounted to 4·18 ins.

Bright Sunshine was considerably in excess of the mean in Ireland, England N.W., and Scotland W., and to a slight extent in Scotland N.; elsewhere there was again a deficiency, especially over southern, central, and eastern England. The percentage of the possible duration ranged from 48 in Ireland N., 43 in Ireland S., and 40 in Scotland W., to 20 in the Midland counties, 15 in England S., and 9 in England E.

Barometer and Wind.—At the commencement of the week a shallow depression, which had passed north-eastwards over England, was moving slowly south-eastwards over the North Sea and filling up. In its rear the barometer rose decidedly, and the distribution of pressure became anticyclonic in the west and north-west, with moderate or fresh Northerly winds over the whole Kingdom. On the 15th and 16th depressions moved towards our Islands from Germany; the first of these was not sufficiently deep to greatly influence the force of the wind, but that of the 16th caused the Northerly and North-Easterly wind on our east and south-east coasts to increase to the force of a moderate gale. By the end of the week this disturbance was filling up, but the anticyclone in the north had dispersed and a depression had appeared off our northern coasts, causing the wind to back to the Westward in Scotland.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 247 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Averages for the Week. Of Lowest each day.	Averages for the Week. For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Accumulated Heat for the Week (in Day-degrees). Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	30	48·7	38·1	43·2	- 2·7	25	11	4	0·33	-0·61	*	*	*	*
	Stornoway	54	30	49·6	34·4	41·8	- 4·0	21	31	3	0·84	-0·28	18·1	- 1·2	25	- 2
	Wick	57	27	49·6	32·6	40·5	- 5·4	21	38	3	0·14	-0·53	*	*	*	*
	Glencarron ℌ	52	26	46·6	30·7	38·4	- 7·4	13	41	4	1·07	-0·93	*	*	*	*
	Fort Augustus ℌ	51	29	47·9	33·8	40·6	- 6·4	17	31	2	0·02	-0·95	9·6	- 3·4	13	- 5
	Fort William ℌ	53	29	48·4	34·8	41·4	- 6·1	18	28	1	0·22	-1·53	25·1	+ 7·3	35	-11
1. SCOTLAND, E.	Nairn	52	27	47·7	31·9	39·6	- 6·6	16	38	2	0·05	-0·55	*	*	*	*
	Aberdeen	54	32	48·9	37·4	43·0	- 4·1	26	13	5	0·24	-0·46	14·8	- 7·2	21	-10
	Braemar ℌ	51	24	44·0	28·8	36·2	- 7·3	6	46	3	0·59	-0·28	21·3†	+ 5·1†	30†	+ 7†
	Ochtertyre ℌ	62	28	53·0	32·4	42·4	- 4·2	43	27	1	0·01	-0·93	*	*	*	*
	Leith	55	32	51·0	36·0	43·3	- 5·0	34	17	2	0·99	-0·38	*	*	*	*
	Marchmont ℌ	51	31	47·7	37·9	42·7	- 3·1	22	11	6	1·13	+0·35	15·0	- 4·6	21	- 6
2. ENGLAND, N.E.	Alnwick Castle	55	33	48·4	40·6	44·4	- 2·8	23	4	7	4·18	+3·46	*	*	*	*
	Durham	54	35	47·5	40·6	44·0	- 3·2	20	4	7	1·52	+0·84	14·1	- 5·9	19	- 8
	Shields	54	34	49·9	40·6	45·1	- 2·8	28	4	6	1·45	+0·87	*	*	*	*
	Scarborough ℳ	53	39	49·2	44·6	46·8	- 2·0	34	0	6	1·09	+0·37	*	*	*	*
	York	58	35	51·0	40·4	45·5	- 2·3	31	4	6	0·39	-0·23	19·0	- 1·4	26	- 1
	Spurn Head	56	37	50·7	44·3	47·4	- 2·4	38	0	7	2·36	+1·83	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	58	38	53·0	43·3	48·0	- 0·8	42	0	7	1·91	+1·28	6·8	-15·2	9	-21
	Yarmouth	55	38	52·3	45·3	48·7	- 1·2	47	0	7	0·95	+0·25	*	*	*	*
	Geldeston	58	34	53·3	42·3	47·6	- 2·1	39	0	6	1·07	+0·43	2·2	-23·1	3	-30
	Cambridge	57	35	51·4	40·4	45·7	- 3·1	33	4	7	1·21	+0·67	7·4	-16·7	10	-22
	Rothamsted	56	34	50·3	40·9	45·5	- 2·8	29	3	7	1·26	+0·55	9·9	-15·0	13	-20
4. MIDLAND COUNTIES	Harrogate ℳ	55	34	48·4	40·5	44·3	- 3·3	22	4	5	0·45	?	16·9	?	23	?
	Bawtry (Hesley Hall)	58	35	50·6	41·6	46·0	- 1·8	30	1	5	0·67	+0·04	*	*	*	*
	Loughborough	57	35	49·6	40·9	45·1	- 3·6	26	3	5	1·18	+0·55	*	*	*	*
	Stamford (Duddington)	—	—	—	—	—	—	—	—	7	1·82	+1·12	*	*	*	*
	Cheadle ℳ	55	32	49·5	38·7	43·9	- 3·5	27	9	5	0·54	-0·24	*	*	*	*
	Shirley (near Solihull)	57	33	48·6	39·9	44·1	- 4·3	24	6	7	0·94	?	*	*	*	*
	Churchstoke ℳ	53	30	48·1	37·6	42·7	- 4·8	23	12	6	0·45	-0·33	14·8	- 6·2	20	- 8
	Hereford ℳ	58	34	51·6	40·3	45·8	- 2·6	34	5	6	0·68	+0·04	*	*	*	*
	Cirencester	54	34	49·6	40·6	45·0	- 2·8	27	4	7	0·36	-0·38	18·8	- 4·0	25	- 6
	Oxford	57	35	51·0	41·1	45·9	- 3·0	31	3	5	0·29	-0·33	12·7	-10·5	17	-14
5. ENGLAND, S.	London	59	37	51·6	42·3	46·8	- 3·0	34	0	6	1·44	+0·80	7·7†	-10·2†	10†	-14†
	North Foreland	58	40	53·0	44·9	48·8	- 2·5	48	0	6	1·98	?	*	*	*	*
	Dungeness	57	34	53·3	42·9	48·0	- 3·6	42	0	6	0·92	+0·14	*	*	*	*
	Hastings (St. Leonards)	60	36	53·6	43·0	48·1	- 3·3	43	0	6	0·77	-0·11	7·4	-20·2	10	-27
	Southampton	57	35	52·5	42·1	47·2	- 3·6	36	0	6	0·21	-0·59	18·1	- 7·7	24	-11
	Hurst Castle	56	35	52·4	42·4	47·3	- 4·4	37	0	6	0·17	-0·63	*	*	*	*
	Stowell ℳ												*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	28	50·3	33·6	41·7	- 6·2	23	33	3	0·25	-1·50	*	*	*	*
	Glasgow	53	30	48·8	34·8	41·6	- 5·2	19	29	1	0·01	-0·85	23·7	+ 8·0	32	+10
	Ardrossan	55	29	50·0	35·0	42·3	- 6·6	32	20	1	0·03	-0·82	*	*	*	*
	Glenlee ℌ	55	25	49·0	34·8	41·6	- 5·2	20	28	1	0·11	-1·17	*	*	*	*
	Douglas (Isle of Man)	55	29	49·8	38·9	44·2	- 4·4	28	9	2	0·89	-0·11	34·9	+10·9	47	+14
7. ENGLAND, N.W.	Stonyhurst	55	34	49·3	40·3	44·7	- 2·9	26	5	2	0·28	-0·88	31·1	+11·0	42	+15
	Blackpool ℳ	59	32	52·8	38·8	45·6	- 3·6	39	9	3	0·60	-0·35	34·8	+14·8	47	+20
	Manchester (Prestwich)	57	33	51·3	40·1	45·5	- 2·5	32	5	2	0·46	-0·46	24·5	?	33	?
	Liverpool Obsy. (Bidston)	56	35	50·1	39·9	44·9	- 4·7	29	6	3	0·35	-0·46	*	*	*	*
	Llandudno ℳ	54	35	50·7	44·6	47·6	- 3·0	39	0	2	0·41	-0·49	*	*	*	*
	Holyhead	54	35	50·6	42·7	46·5	- 4·5	32	0	2	0·37	-0·52	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	25	53·3	35·4	44·1	- 5·3	42	18	4	0·35	-0·88	*	*	*	*
	Pembroke	54	37	50·3	43·0	46·5	- 5·2	32	0	3	0·11	-0·82	22·4	- 1·3	30	- 3
	Clifton	53	35	48·8	40·8	44·7	- 4·1	24	3	5	0·43	-0·42	*	*	*	*
	Arlington (N. Devon)	52	31	49·7	39·9	44·7	- 5·1	28	6	5	0·69	-0·37	*	*	*	*
	Cullompton ℳ	54	30	51·7	40·9	46·1	- 4·7	33	3	5	0·58	-0·33	19·1	- 2·5	25	- 4
	Falmouth	55	35	51·8	41·9	46·7	- 5·2	33	0	5	1·35	+0·13	28·1	+ 0·9	37	+ 1
	Plymouth	54	34	51·9	41·8	46·7	- 4·7	34	1	3	0·52	-0·38	27·0	+ 2·4	36	+ 3
	Prawle Point	54	30	52·9	38·3	45·4	- 6·5	39	10	6	0·59	-0·30	*	*	*	*
9. IRELAND, N.	Malin Head	52	33	49·0	41·1	44·9	- 4·1	24	3	5	0·59	?	*	*	*	*
	Londonderry	57	32	51·0	37·0	43·8	- 4·2	34	14	6	0·68	-0·30	*	*	*	*
	Edenfel (Omagh)	53	31	49·6	35·6	42·4	- 3·4	30	18	3	0·64	-0·22	*	*	*	*
	Belmullet	54	26	50·9	41·1	45·9	- 4·1	31	3	2	0·23	-0·92	*	*	*	*
	Markree Castle	56	32	50·7	36·4	43·3	- 4·3	33	16	5	0·49	-0·51	34·3	+13·6	46	+18
	Armagh	55	28	51·1	22·8	41·7	- 5·2	25	37	2	0·10	-0·58	38·6	+17·6	52	+24
	Donaghadee	55	37	51·9	43·4	47·5	- 1·4	39	0	2	0·30	-0·41	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	54	33	50·3	39·1	44·5	- 5·1	30	8	2	0·03	-0·65	27·9	+ 2·9	38	+ 3
	Parsonstown	55	29	50·0	32·9	41·2	- 6·2	22	36	2	0·07	-0·63	35·1	+ 9·4	43	+13
	Kilkenny	54	32	50·1	37·9	43·8	- 5·8	30	11	2	0·07	-0·62	*	*	*	*
	Roche's Point	55	37	52·0	40·4	46·0	- 4·9	35	4	1	0·02	-0·88	*	*	*	*
	Valencia	55	34	51·4	39·6	45·3	- 6·3	33	7	3	0·30	-0·90	36·5	+12·7	49	+17
	Killarney	56	36	52·5	33·1	42·5	- 8·0	41	25	3	?0·74	?	*	*	*	*
	Foynes	55	36	50·9	41·8	46·2	- 2·6	30	1	2	0·12	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	38	52·7	44·6	48·5	- 4·9	46	0	7	1·15	+0·29	16·5	?	22	?
	Jersey	57	40	53·4	45·3	49·2	- 4·7	50	0	7	2·12	+1·08	22·3	- 6·5	30	- 9

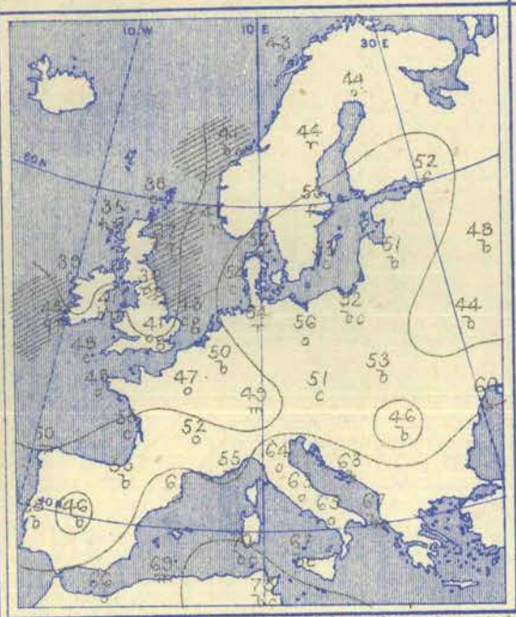
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

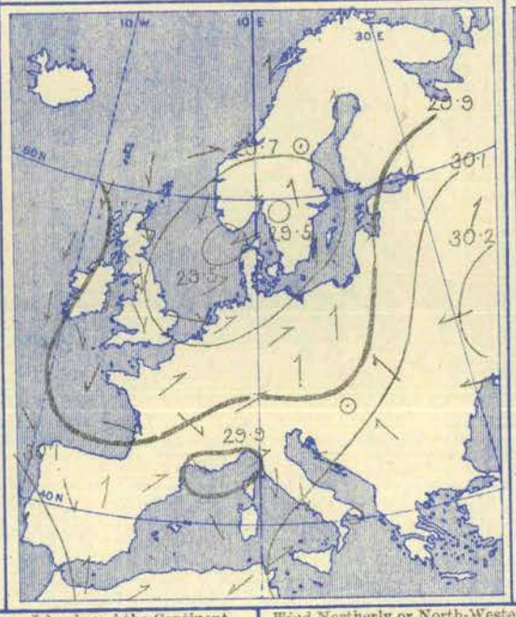
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 11th October.

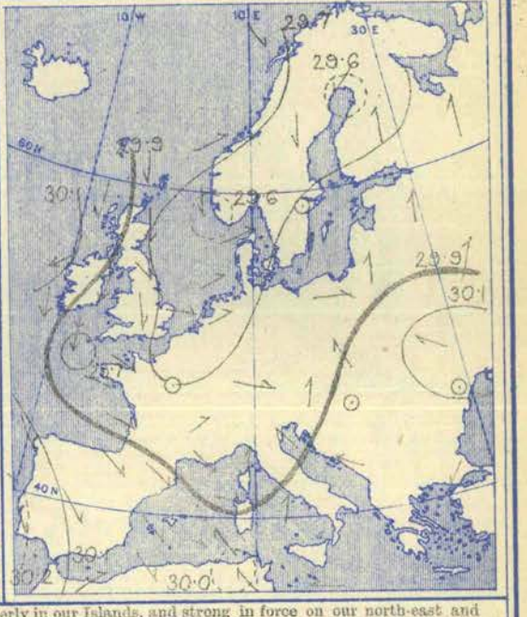
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled over the greater part of our Islands and the Continent, with rain or passing showers in many places. Hail or sleet falling at many of our own northern stations, and snow at Parsonstown. Fine and bright over the greater part of Spain, as well as in southern Italy, Austria, and the central and southern parts of Russia. Snow or sleet falling during day at many of our own stations, and heavy rain at Spurn Head. Large quantities of rain experienced also at several of the Continental stations. Thunderstorms occurring in France. Bright aurora seen in the north of Scotland.

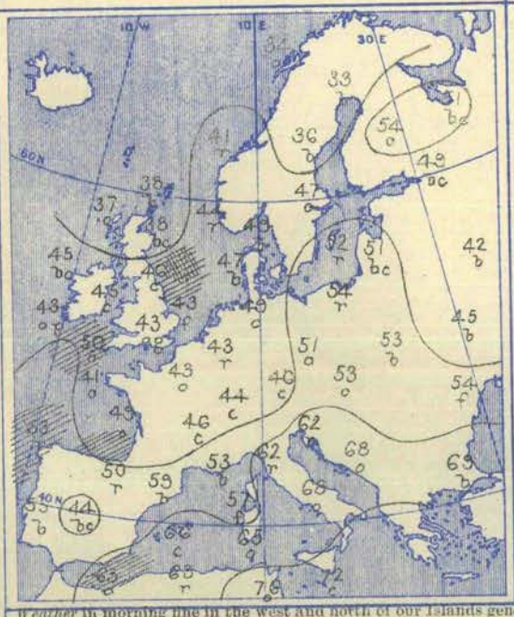
Temperature fallen generally—quickly over England. Morning readings highest, 75° at Sfax, 73° at La Calle, 70° at Cagliari, and 69° at Algiers; above 60° at the Mediterranean and Adriatic stations generally. Lowest, 33° at Parsonstown, 35° at Stornoway and Nairn, and 36° at Shields; below 40° in all the more northern and central parts of the United Kingdom. Daily maxima in our Islands varying as a rule a degree or two on either side of 45°. Thermometer exceeding 65° in the south of France, and exceeding 70° in many parts of Spain and Italy. Frost occurring in several parts of the United Kingdom at night.

Wind Northerly or North-Westerly in our Islands, and strong in force on our north-east and north-west coasts. Moderate from the North-Westward over the Spanish Peninsula; from the Westward or South-Westward in France, and from the South-Westward or Southward over the Netherlands, Germany, and Denmark. Light from the Southward over the Baltic, and from the South-Eastward over western Russia; calm in Austria; variable in Italy. Subsequently increasing to a gale from the Northward at the mouth of the Channel; no important change occurring elsewhere.

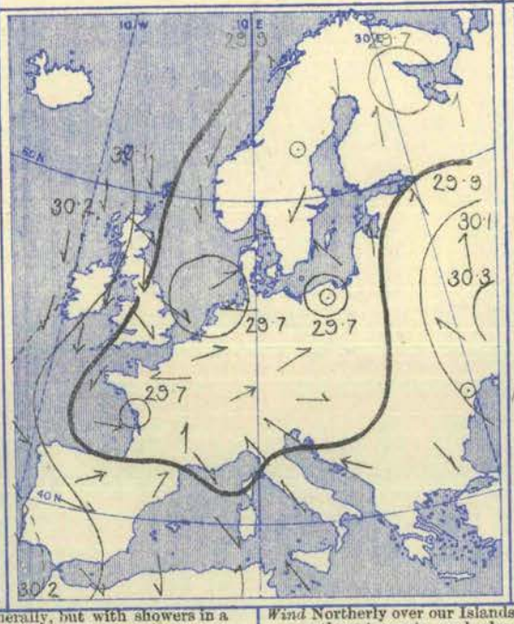
Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the south of Russia; 30·1 ins. and upwards in another system over the south-western parts of the Spanish Peninsula. Lowest, 29·6 ins. and less in a complex depression over the North Sea, Denmark, and the south of Scandinavia, and also in another system off the north-west of Norway. Depression over North Sea subsequently moving south-eastwards and partially filling up, but well-marked secondary disturbance forming at the mouth of the English Channel.

Monday, 12th October.

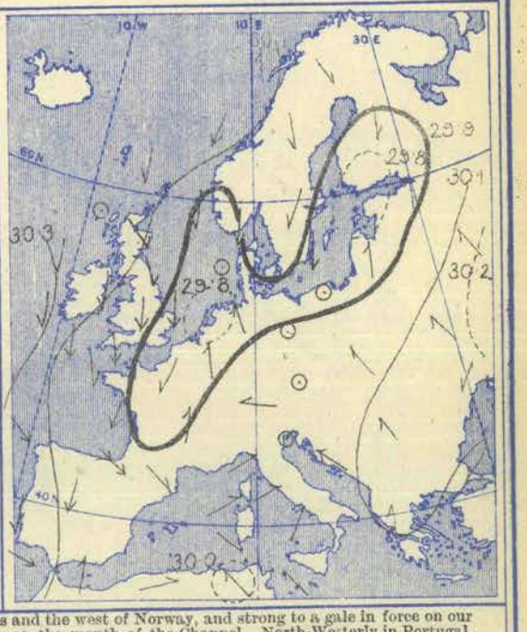
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the west and north of our Islands generally, but with showers in a few places. Dull over the central and south-eastern parts of England, as well as over France, Italy, Germany, Austria, and the Netherlands, with rain in many places. Fine in Spain, and also over Russia and the north of Sweden, but rainy in the west of Norway. Rain falling later in many parts of western and central Europe—heavily in places. Thunderstorms occurring at Scilly and Biarritz, and thunder heard at Lyons.

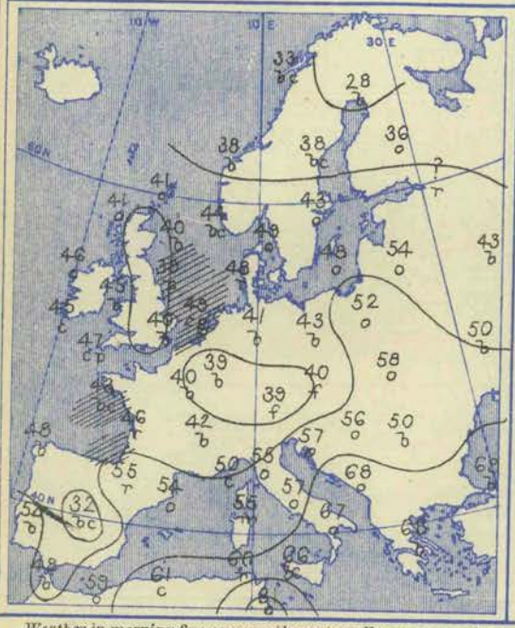
Temperature risen in our Islands, but fallen in most of the Continental countries. Morning readings highest, 76° at Sfax, 70° at La Calle, 69° at Constantinople, and 68° at Naples and Lesina; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 33° at Haparanda, 34° at Bodö, and 36° at Hernösand; (2) 33° at Parsonstown, and 37° at Stornoway (below 40° in the north of Scotland generally). Daily maxima below 45° in the north of Scotland, and below 50° at all but our extreme southern stations. Thermometer exceeding 70° in many parts of Italy and Austria, and reaching 86° at Palermo. Frost occurring in many parts of the United Kingdom at night.

Wind Northerly over our Islands and the west of Norway, and strong to a gale in force on our north-east coasts, and also at the mouth of the Channel. North-Westerly in Portugal, and Westerly or South-Westerly over Spain and the southern parts of France and Germany. Light and variable over Denmark and north Germany; calm in Sweden; Southerly or South-Easterly in Russia, and also in Italy. Subsequently veering to the Northward in France; no important change occurring elsewhere.

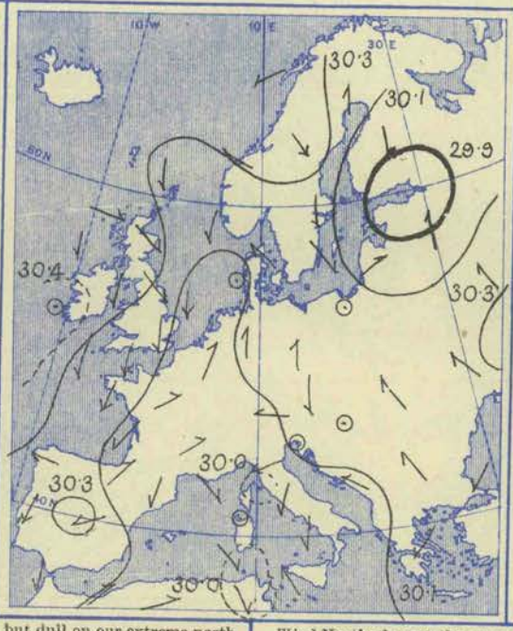
Barometer highest, 30·3 ins. and upwards in an anticyclone over the south of Russia; 30·2 ins. and upwards in another large system extending from the Atlantic over the west of Ireland, and also over Portugal. Lowest, 29·7 ins. and less in three depressions—one lying over the west of France, another over the Netherlands, and a third over north Germany. Depressions subsequently moving south-eastwards and partially filling up; barometer rising over western Europe generally.

Tuesday, 13th October.

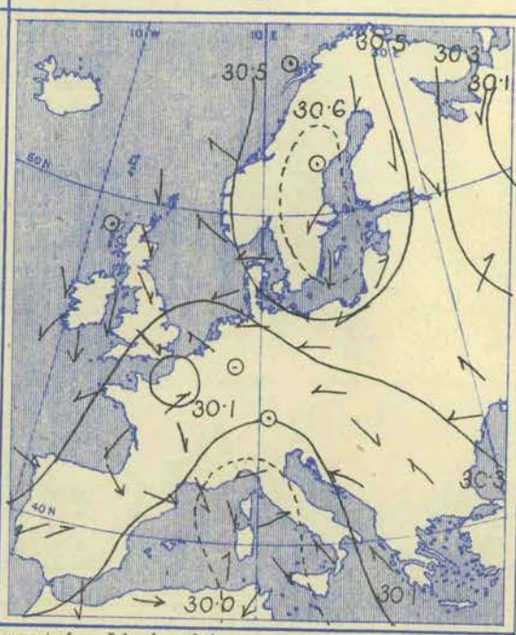
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over north-western Europe as a whole, but dull on our extreme north and north-west coasts, and showery on the east coast of England. Dull over Denmark, the Baltic, and northern Russia. Foggy over south Germany; dull in Italy, with rain at Pesaro; rainy in the south-west of France; fine over the Spanish Peninsula. Rain falling later in the east and south of our Islands, as well as at many of the Continental stations—heavily in the south-east of England, and also in some parts of Spain and Italy. Thunderstorms occurring at Cambridge and the North Foreland, and also at Biarritz.

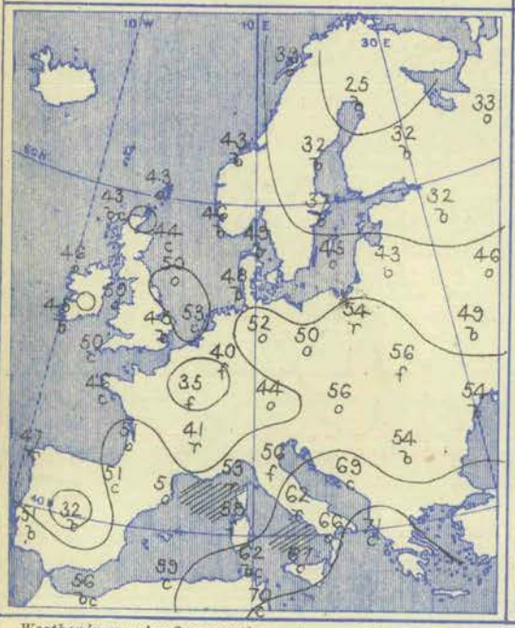
Temperature fallen in most countries, but risen a little in Ireland, and also over the central and southern parts of Russia. Morning readings highest, 81° at Sfax, 69° at Constantinople, and 68° at Patras and Lesina; above 60° at several of the Adriatic and Mediterranean stations. Lowest, (1) 28° at Haparanda and Uleaborg, and 38° at Bodö; (2) 30° at Wick and 34° at Ardrossan; (3) 32° at Madrid. Rising later to 50° or a little above in many parts of the United Kingdom, to 55° and upwards in Spain and the south of France, and to 70° and upwards over southern Italy. Frost occurring in the west and north of our Islands at night.

Wind Northerly over the greater part of our Islands and the west and north of France, as well as in Finland and the south of Scandinavia; fresh or strong in force in the east and south-east of England and the north of France. Light from the South-Westward over central France, and from the Southward over the Netherlands and western Germany, but calm or variable over Austria and eastern Germany. Northerly or North-Easterly over Spain and central Italy. South-Easterly over the central and southern parts of Russia. Subsequently veering to the Eastward in the south-east of England; no important change occurring elsewhere.

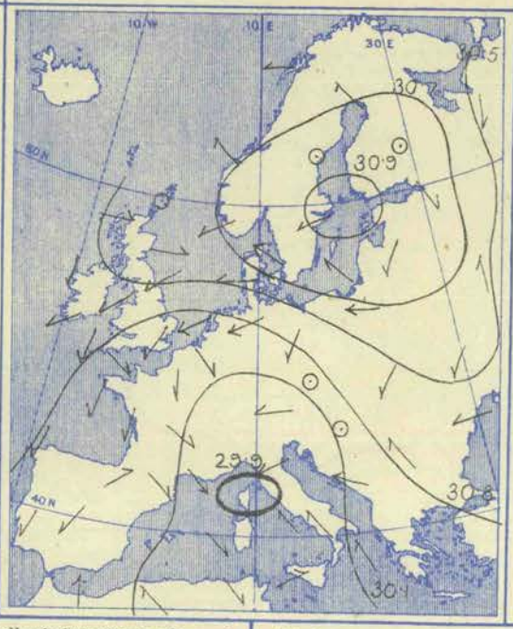
Barometer highest, 30·4 ins. and upwards in the south of Ireland; 30·3 ins. and upwards in an anticyclone covering the west and north of our Islands and the north of Scandinavia, and also in another system over the south of Russia. Lowest, 29·9 ins. and less in a depression having its centre near St. Petersburg; 30·0 ins. and less in two shallow systems lying respectively off the coasts of Sardinia and Tunis. General rise taking place later, briskly in Scandinavia, but shallow depression forming over the north-east of France.

Wednesday, 14th October.

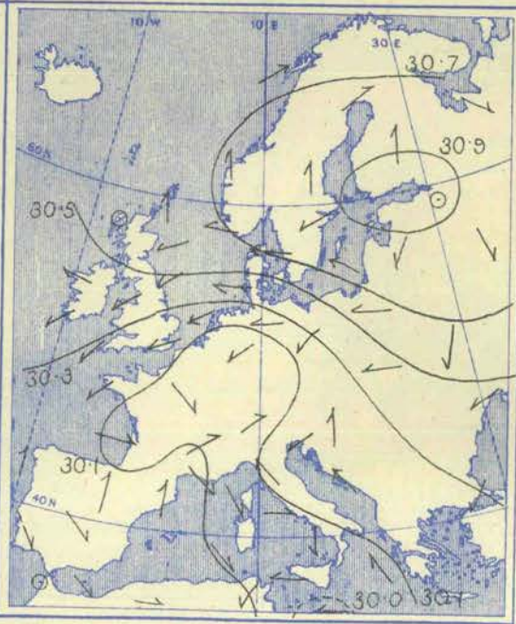
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands, as well as in Scandinavia, Denmark, and Russia, but rain reported at Faerder and snow at Helsingfors. Fine also over the Spanish Peninsula, but dull and unsettled over all the more central parts of Europe, with rain in north Germany, as well as in the south of France and northern Italy. Rain falling later over England, and also in many parts of the Continent—amounts as large as 4·8 ins. at Trieste and 2·6 ins. at Naples. Thunderstorms occurring at Biarritz and Oran.

Temperature risen generally, but fallen over northern Europe. Morning readings highest, 71° at Brindisi, 70° at Sfax, 69° at Lesina, and 67° at Palermo; above 60° over the Adriatic and the central parts of the Mediterranean generally, and above 55° in some parts of Austria and south Germany. Lowest, (1) 25° at Haparanda, 29° at Uleaborg, and 31° at Helsingfors; (2) 30° at Parsonstown and 36° at Nairn; (3) 32° at Madrid; (4) 35° at Paris. Rising during day to 55° or a little above it in many parts of England; exceeding 60° over southern Europe generally, and exceeding 70° in the south of Italy.

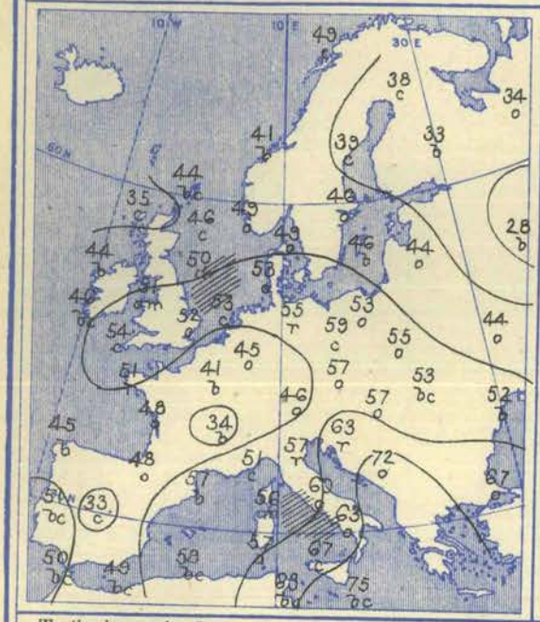
Wind strong from the Eastward or North-Eastward over Denmark and the Baltic, and light or moderate from the same quarters over the south of Scandinavia, the North Sea, Netherlands, and the greater part of England and Ireland; Northerly over the north and west of France, and also in Spain; North-Westerly in the south of France. Light from the Westward in Scotland, calm in the north of Sweden, light from the Northward over northern Russia, South-Easterly in Italy and Austria. Subsequently increasing to a gale from the Eastward in Denmark, and to a fresh or strong breeze from North-Eastward on our east and south-east coasts.

Barometer highest, 30·91 ins. at Stockholm; 30·5 ins. and upwards in an anticyclone covering the greater part of northern and eastern Europe, and extending westwards over Scotland. Lowest, 29·9 ins. and less in a shallow depression off the south of France. New depression forming later over the Netherlands, and barometer falling in most parts of western Europe.

Thursday, 15th October.

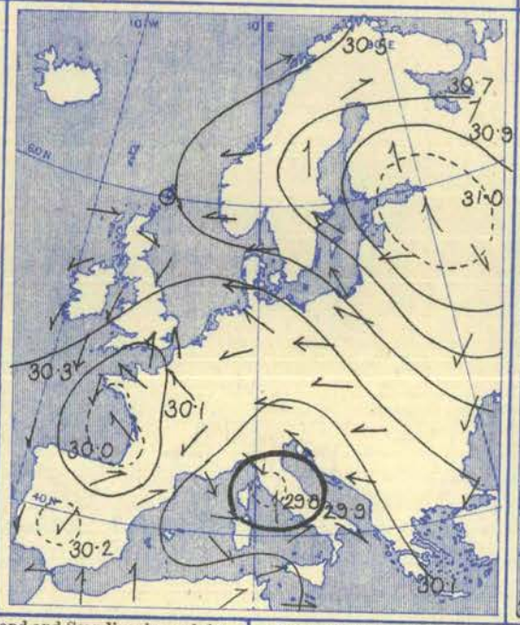
Temperature and Weather.

8 a.m.

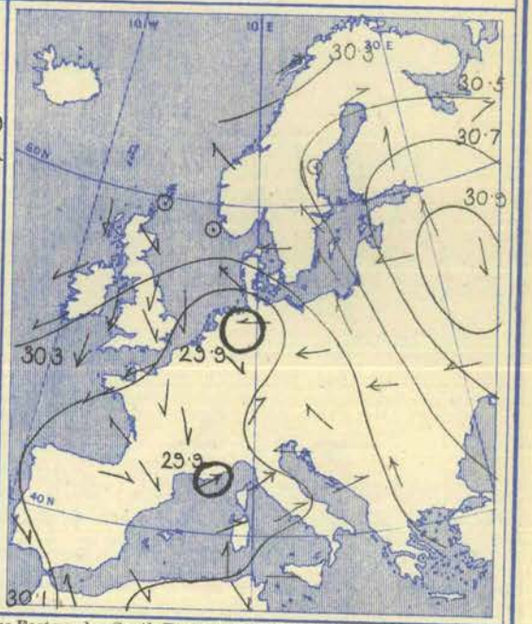


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Ireland, the northern parts of Scotland and Scandinavia, and the greater part of Russia. Cloudy or overcast elsewhere, with slight rain at many of the English stations. Rain falling also at Cuxhaven, Trieste, and Leghorn. Subsequently becoming cloudy or dull in Ireland and the north of Scotland; heavy rain occurring at some of the French and Italian stations, and also at Brussels. Thunderstorms reported at Chassiron and La Coubre, and lightning seen at Nice and Marseilles.

Temperature risen over western and northern Europe as a whole, but changed irregularly elsewhere. Morning readings highest, 75° at Malta, 73° at Brindisi, and 72° at Lesina; above 60° over the Adriatic and the central parts of the Mediterranean generally, and very little below it in north Germany. Lowest, (1) 28° at Moscow, 31° at St. Petersburg, and 33° at Kuopio and Riga; (2) 33° at Madrid, 34° at Lyons, and 37° at Perpignan; (3) 37° at Parsonstown. Rising during day to 55° and upwards over the southern parts of the United Kingdom generally, and also in many parts of France and Germany; exceeding 60° in the south of France, and exceeding 70° in the southern parts of Spain and Italy.

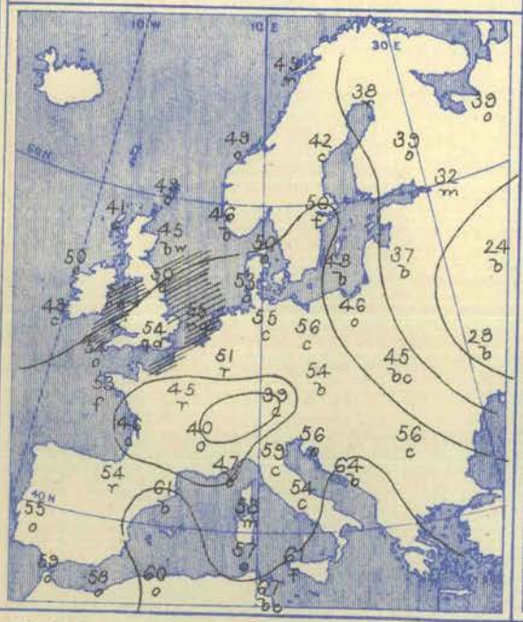
Wind moderate to strong from the Eastward or South-Eastward over the Baltic, north Germany, Denmark, and the south of Scandinavia, and from the Northward or North-Eastward over the greater part of England and Ireland. Light from South or South-East over the south-east of England, the Netherlands, and the northern and central parts of France. Northerly over the Spanish Peninsula, and North-Westerly in the south of France; Westerly or South-Westerly over the greater part of Italy; South-Easterly over the northern parts of the Adriatic. Westerly or North-Westerly in the north of Scotland, Southerly or South-Westerly in Finland and the north of Scandinavia. Subsequently shifting to the North-Westward in the east of England; no important change occurring elsewhere.

Barometer highest, 31·08 ins. at St. Petersburg; 31·0 ins. and upwards over the north-western parts of our Islands generally; 30·5 ins. and upwards in an anticyclone embracing the whole of northern and eastern Europe. Lowest, 29·8 ins. and less in a depression over northern Italy; 30·0 ins. and less in another disturbance over the Bay of Biscay. Latter system filling up later, but new and rather deep depression forming over the Netherlands.

Friday, 16th October.

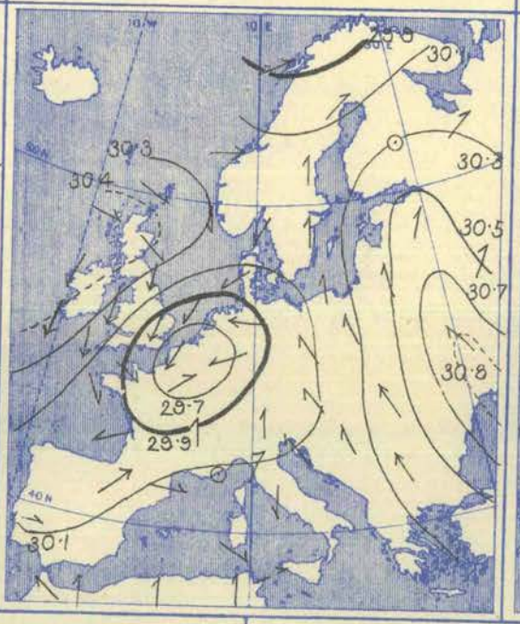
Temperature and Weather.

8 a.m.

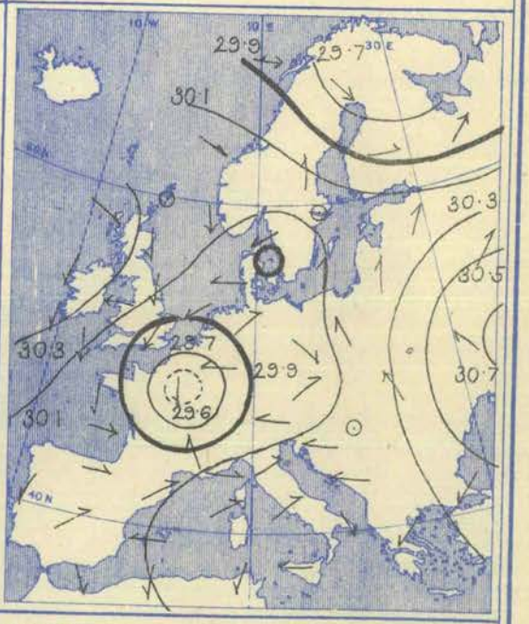


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over the eastern and central parts of England, as well as in Belgium and at many of the French stations, fine over Ireland and Scotland, and also in Sweden, Russia, and the extreme south of France; dull in the west of Norway, with rain at Bodö; cloudy also at most of the Spanish and Italian stations. Rain falling during day over Great Britain and the western parts of the Continent generally, heavily in places—as much as 3·2 ins. at Gap. Thunderstorm occurring at Berlin.

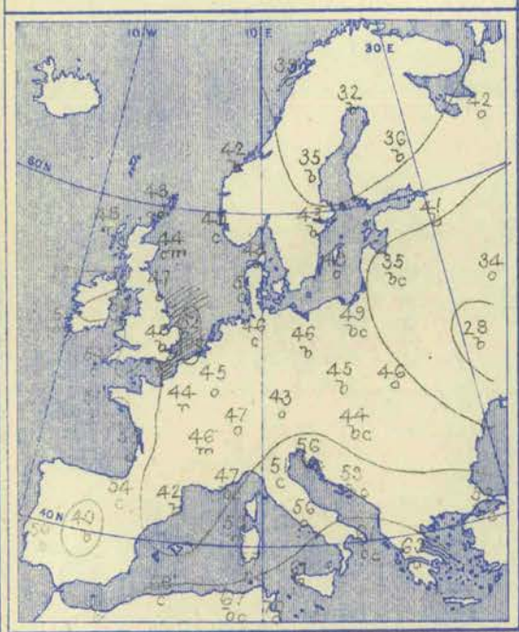
Temperature risen a little in the western and northern countries, but fallen in Italy, Austria, and the south of Russia. Morning readings highest, 67° at Sfax, 64° at Lesina, and 61° at Barcelona and Palermo; above 55° over north Germany and the extreme south-east of England. Lowest, (1) 24° at Moscow, 25° at Kharkov, and 28° at Kiev; (2) 39° at Munich, and 40° at Belfort, Lyons, and Perpignan; (3) 40° at Nairn, and 41° at Stornoway. Daily maxima below 55° in many parts of our Islands and France, but thermometer exceeding 60° over central and southern Europe generally, and exceeding 70° in the south of Italy.

Wind fresh to strong from the North-Eastward over Ireland, England, and the Netherlands, with a moderate gale on our east coasts. South-Westerly in France, South-Easterly over Germany, Austria, western Russia, and the greater part of Sweden. Light from the North-Westward in Scotland, strong to a gale from the Westward in the west of Norway. Variable over Spain and Italy. Subsequently increasing to a moderate gale from the Northward at some of the English Channel stations.

Barometer highest, 30·8 ins. and upwards over the south of Russia; 30·4 ins. and upwards in an anticyclone covering the greater part of Russia, and also in another system over Scotland and the west of Ireland. Lowest, 29·7 ins. and less in a well-marked depression over the Netherlands and north-east of France; 29·9 ins. and less in another disturbance over the north of Scandinavia. Former depression moving slowly southwards during day, and barometer rising a little on our south-east coasts. Scandinavian depression moving eastwards

Saturday, 17th October.

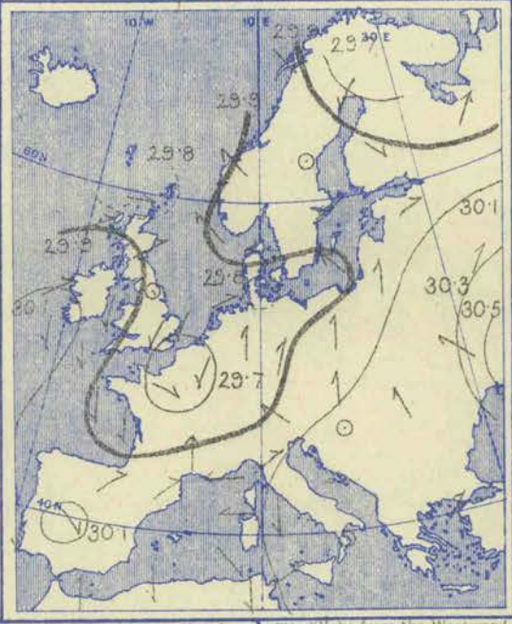
Temperature and Weather. — 8 a.m.

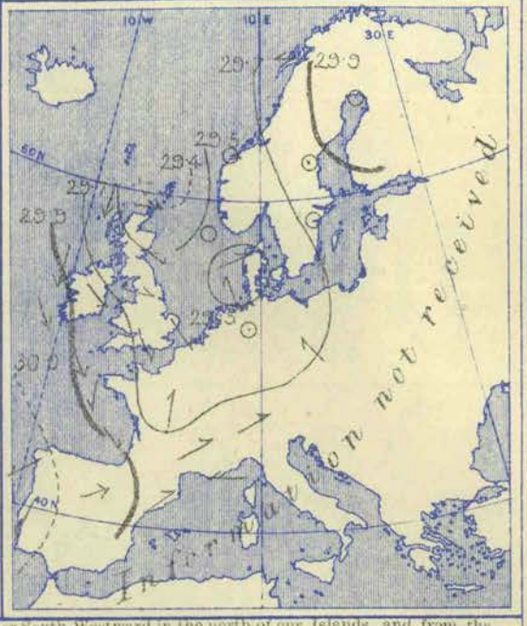


Weather in morning dull and unsettled in the west and north of our Islands, as well as in France, the Netherlands, Denmark, and the western and northern parts of Germany, with rain in a few places. Fine in nearly all other parts of Europe, but foggy at some of the Austrian and south German stations. Rain falling later in nearly all the western and northern countries, but amount in our Islands mostly slight.

Temperature risen in the west and north of our Islands, and also in France, but fallen in nearly all other parts of Europe. Highest, 70° at Sfax, 69° at Tunis, and 68° at Algiers; above 60° at the Mediterranean stations generally. Lowest, 17° at Kharkov, 28° at Kiev, 32° at Haparanda, 33° at Hangö, and 34° at Moscow. Rising during day to 50° and upwards in many parts of the United Kingdom, and reaching 57° at Jersey. Exceeding 55° in Germany, and exceeding 60° in the south of France; touching 66° at Lisbon. Frost occurring in the north of Scotland at night.

Barometer and Wind — 8 a.m. and 6 p.m.





Wind light from the Westward or South-Westward in the north of our Islands, and from the South-Eastward in the west of Norway. Moderate to fresh from the Northward over the southern parts of the United Kingdom, and from the Westward in the west of France; strong from the Southward over central France; light from the Eastward over the Netherlands and western Germany. Southerly or South-Easterly over eastern Germany and the south of Russia; Westerly or South-Westerly over northern and central Russia. Light and variable over Italy and the Spanish Peninsula. Subsequently veering to the North-Westward over the northern parts of our Islands, and increasing to a moderate gale on our extreme north-west coasts.

Barometer highest, 30·6 ins. and upwards over the south of Russia. Lowest, 29·7 ins. and less in a depression over the north-east of France, and also in another system over Lapland; 29·8 ins. and less in two other disturbances lying respectively over Denmark and off the north of Scotland. French depression filling up later; disturbance to the northward of our Islands spreading southwards, and barometer falling steadily over north-western Europe generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia: that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week, when barometrical pressure was high over Russia and also to the west of our Islands, the weather over all but the southern countries was affected by a large and complex depression which moved slowly south-eastward across north-western Europe. Rain was experienced very generally, the fall being large in places; and in our Islands, where the wind blew freshly from the Northward, it was mingled with snow or sleet.

After the 12th, however, the low pressure system dispersed, the barometer rose quickly in the north, and a large anticyclone was developed over northern and north-western Europe, its central portion being situated at first over Scandinavia, and afterwards over Russia. In the west and north of our Islands, and also over Scandinavia, the weather now improved, but over England it was affected by two depressions which were formed over Germany, and which afterwards moved westwards towards our Islands. The first of these was of little depth, and occasioned nothing more than fresh North-Easterly breezes on our east coasts, the system ultimately passing on to the Bay of Biscay, where it gradually filled up. The second one developed considerable intensity, and occasioned moderate Northerly to North-Easterly gales on all our east and south coasts, with heavy rain in some parts of England and the Continent.

By the close of the week this depression was dispersing over the north-east of France, but a new disturbance was spreading over our Islands and the North Sea from the Northward, so that the general conditions were still very unsettled.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	11·2	−17·7	15	− 11	SOUTHPORT	26·5	?	36	?
OSWALDKIRK (Yorkshire)	14·2	− 5·6	19	− 8	MANCHESTER (Oldham Road)	18·0*	?	24*	?
WORKSOP	13·6	− 6·2	18	− 8	COLWYN BAY	21·1	?	29	?
THURCASTON (Leicestershire)	11·7	− 8·3	16	− 11	TENBY				
MARGATE	5·9	−18·3	8	− 24	NEWQUAY	24·0	− 2·2	32	− 3
WESTBOURNE (Sussex)	20·2*	− 5·8	27*	− 8	TORQUAY	25·0*	− 0·3	33*	0
BRIGHTON	15·1	−12·9	20	− 18	ARLEY COTTAGE (County Cavan)	34·0	+13·8	43	+ 18
EASTBOURNE	7·0	−20·5	9	− 28	GUERNSEY	21·2*	− 5·6	28*	− 8

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 43.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 24TH, 1896. [*Price 6d.* *Annual Subscription, post paid,* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 254.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From December 29th, 1895. Above 42°	From December 29th, 1895. Difference from Mean.	From December 29th, 1895. Below 42°	From December 29th, 1895. Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
	0. SCOTLAND, NORTH	52	24	44·6	34·4	39·3	6 below	7	−23	27	+17	2035	+188	370	−283
Principal Wheat-producing Districts.	1. SCOTLAND, EAST	50	18	44·3	32·8	38·7	6 below	8	−25	33	+21	2359	+131	483	−291
	2. ENGLAND, N.E.	51	30	46·4	35·0	40·5	6 below	12	−25	26	+20	2622	+210	353	−209
	3. ENGLAND, EAST	52	30	47·9	34·3	40·9	6 below	17	−28	30	+23	2961	+175	418	−215
	4. MIDLAND COUNTIES	55	26	47·1	33·1	39·9	7 below	14	−27	33	+23	2933	+169	410	−235
	5. ENGLAND, SOUTH	56	31	49·7	36·2	42·7	6 below	29	−21	16	+11	3293*	+266	253	−236
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	21	46·9	35·1	40·9	6 below	14	−24	27	+19	2567	+224	281	−200
	7. ENGLAND, N.W.	50	28	47·0	36·0	41·3	6 below	14	−28	23	+18	2872	+305	227	−243
	8. ENGLAND, S.W.	55	22	49·6	35·4	42·3	7 below	30	−21	18	+15	3185	+351	178	−190
	9. IRELAND, NORTH	53	26	47·0	36·2	41·4	5 below	14	−28	22	+17	2691*	+224	202*	−205
	10. IRELAND, SOUTH	51	25	47·7	34·9	41·1	7 below	16	−33	27	+22	3107	+316	128	−184
	—CHANNEL ISLANDS	56	40	52·2	42·8	47·4	5 below	38	−33	0	0	3707	+476	39	−109

Rainfall.

	DISTRICTS. (See p. 254.)	For the Week. Number of Rainy Days	For the Week. Total Fall.	For the Week. More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	From December 29th, 1895. Difference from Mean.	From December 29th, 1895. Total fall.	From December 29th, 1895. Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
	0. SCOTLAND, NORTH	6	14	1 more	202	+ 5	46·0	+ 5·6
Principal Wheat-producing Districts.	1. SCOTLAND, EAST	5	14	7 more	169	+ 8	23·3	− 3·2
	2. ENGLAND, N.E.	7	11	5 more	150	− 1	18·7	− 2·4
	3 ENGLAND, EAST	6	10	4 more	150	+ 3	20·5	− 0·5
	4. MIDLAND COUNTIES	4	5	1 less	147	+ 3	19·8	− 3·0
	5. ENGLAND, SOUTH	4	9	1 more	136	− 3	20·0*	− 2·9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	5 less	178	+11	37·1	− 1·3
	7. ENGLAND, N.W.	5	9	1 less	163	+ 7	28·8	+ 0·9
	8. ENGLAND, S.W.	5	10	1 less	146	−11	24·9	− 6·0
	9. IRELAND, NORTH	6	10	1 more	187*	+ 5	33·1	+ 3·2
	10. IRELAND, SOUTH	5	9	1 less	160	− 4	29·2	− 1·9
	—CHANNEL ISLANDS	7	15	5 more	158	− 8	22·6	− 3·1

Bright Sunshine.

	DISTRICTS. (See p. 254.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Differ ence from Mean.	From December 29th, 1895. Hours recorded.	From December 29th, 1895. Difference from Mean.	From December 29th, 1895. Percentage of possible Duration.	From December 29th, 1895. Difference from Mean.
	0. SCOTLAND, NORTH	15	0	22	0	935	− 62	24	− 1
Principal Wheat-producing Districts.	1. SCOTLAND, EAST	14	− 4	21	− 5	1177	− 9	30	0
	2. ENGLAND, N.E.	24	+ 6	34	+ 8	1140*	− 43	29	− 1
	3 ENGLAND, EAST	20	− 2	29	− 1	1353	− 59	35	− 1
	4. MIDLAND COUNTIES	26	+ 6	36	+10	1222	− 41	32	− 1
	5. ENGLAND, SOUTH	27	+ 4	38	+ 6	1442	− 38	37	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	18	0	26	0	1242	− 14	32	0
	7. ENGLAND, N.W.	18	+ 4	26	+ 7	1174	+ 7	32	0
	8. ENGLAND, S.W.	24	+ 1	33	+ 2	1576	+ 51	41	+ 2
	9. IRELAND, NORTH	19	0	28	0	1107	− 51	28	− 2
	10. IRELAND, SOUTH	18	− 4	25	− 6	1292	− 25	33	− 1
	—CHANNEL ISLANDS	24	+ 1	33	+ 1	1769	+ 9	46	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was brighter and less rainy than of late over England, but very unsettled, with a good deal of rain over Ireland and Scotland. Sleet or snow showers were experienced from time to time at many of the northern stations, and thunder and lightning occurred in the south and south-east.

Temperature was much below the mean, the deficit ranging from 5° in Ireland N. and the Channel Islands, to 7° in the Midland counties, England S.W., and Ireland S. The highest of the maxima were recorded, as a rule, on the 24th, and ranged from 56° in England S. and the Channel Islands, to 50° in Scotland E. and England N.W. The lowest of the minima, which were registered on rather irregular dates, ranged from 18° in Scotland E., 21° in Scotland W., and 22° in England S.W., to 31° in England S., and to 40° in the Channel Islands.

Rainfall was less than the mean in the Midland counties, England N.W. and S.W., Scotland W., and Ireland S., but more in all other districts.

Bright Sunshine did not differ very materially from the mean, being in excess in most parts of England, and rather below or just equal to the normal in the western and northern districts.

Barometer and Wind.—During the first few days of the week the winds and weather over our Islands were influenced by a depression which moved South-South-Westwards over England, and subsequently East-North-Eastwards to the North Sea, where it dispersed. Its passage was accompanied by strong winds or gales from the Northward on our western and northern coasts. After the disappearance of this system the wind continued Northerly very generally, and no other disturbance appeared directly over us. By the end of the week, however, a large depression had approached the extreme north of Scotland, and secondary systems were observed further south. The wind consequently backed to between South-West and West, and blew freshly or strongly in many localities.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 253 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	35	45·1	39·0	42·0	− 2·9	9	8	6	2·57	+1·57	*	*	*	*
	Stornoway	52	32	44·6	34·7	39·5	− 5·0	7	26	6	1·51	+0·34	18·6	+ 0·9	28	+ 2
	Wick	49	29	45·1	35·4	40·1	− 4·5	9	24	7	1·32	+0·58	*	*	*	*
	Glencarron Ⓢ	45	24	43·3	30·5	36·7	− 7·9	4	40	7	1·06	−1·01	*	*	*	*
	Fort Augustus Ⓢ	47	24	44·8	31·9	38·2	− 7·6	8	36	5	1·04	+0·12	10·1	− 1·2	15	− 2
	Fort William Ⓢ	49	25	44·7	34·6	39·5	− 6·4	8	27	4	0·79	−0·93	16·1	+ 0·2	24	+ 1
1. SCOTLAND, E.	Nairn	49	25	45·9	33·1	39·3	− 5·4	11	32	5	0·87	+0·34	*	*	*	*
	Aberdeen	50	32	45·7	35·4	40·4	− 5·0	10	25	7	2·68	+2·01	19·7	− 1·3	29	− 1
	Braemar Ⓢ	45	22	40·5	30·3	35·3	− 6·5	0	47	4	2·01	+1·10	12·3	− 1·0	18	− 2
	Ochtertyre Ⓢ	50	18	47·7	32·3	39·8	− 5·0	16	37	4	0·67	−0·28	*	*	*	*
	Leith	48	30	46·1	34·7	40·2	− 6·3	11	27	4	1·38	+0·95	*	*	*	*
	Marchmont Ⓢ	45	25	43·1	31·1	36·9	− 7·5	3	38	7	0·91	+0·15	14·8	− 3·6	21	− 6
2. ENGLAND, N.E.	Alnwick Castle	50	30	45·3	34·0	39·5	− 6·3	9	29	6	1·61	+0·91	*	*	*	*
	Durham	50	30	46·4	33·0	39·5	− 5·9	12	33	7	0·99	+0·30	22·8	+ 4·3	33	+ 7
	Shields	50	30	46·0	33·6	39·6	− 7·1	11	31	5	1·30	+0·71	*	*	*	*
	Scarborough Ⓜ	50	34	46·5	36·2	41·2	− 5·0	13	22	7	1·09	+0·36	*	*	*	*
	York	51	33	47·3	34·0	40·5	− 5·5	15	31	7	0·56	−0·05	22·0	+ 4·0	31	+ 5
	Spurn Head	49	36	46·7	38·9	42·7	− 5·2	18	9	7	1·17	+0·63	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	32	48·4	34·3	41·1	− 5·7	18	30	7	1·38	+0·76	20·5	+ 0·5	29	0
	Yarmouth	50	34	47·3	36·3	41·6	− 6·6	15	22	6	0·96	+0·26	*	*	*	*
	Geldeston	52	31	48·8	33·2	40·8	− 6·8	19	34	5	0·89	+0·24	16·6	− 6·1	23	− 7
	Cambridge	52	30	48·0	34·3	41·0	− 6·2	17	30	4	0·91	+0·37	17·2	− 4·8	24	− 6
	Rothamsted	50	30	46·9	33·6	40·1	− 6·0	14	32	6	0·84	+0·13	27·4	+ 4·2	39	+ 7
4. MIDLAND COUNTIES	Harrogate Ⓜ	49	31	46·4	34·4	40·2	− 5·6	12	28	5	0·70	?	22·5	?	32	?
	Bawtry (Hesley Hall)	49	31	45·6	33·4	39·3	− 6·6	10	31	5	0·95	+0·34	*	*	*	*
	Loughborough	53	29	48·4	33·1	40·5	− 6·3	18	34	4	0·33	−0·29	*	*	*	*
	Stamford (Duddington)	55	32	48·4	35·3	41·7	− 5·6	18	27	6	0·56	−0·06	*	*	*	*
	Cheadle Ⓜ	50	30	44·6	31·9	38·1	− 7·5	7	36	5	0·92	+0·11	*	*	*	*
	Shirley (near Solihull)	52	31	46·1	32·7	39·2	− 7·5	11	34	4	0·30	?	*	*	*	*
	Churchstoke Ⓜ	50	26	46·6	30·1	38·1	− 8·1	13	43	4	0·46	−0·34	28·9	+ 9·4	41	+11
	Hereford Ⓜ	51	27	48·3	32·0	39·9	− 6·9	18	38	2	0·06	−0·54	*	*	*	*
	Cirencester	51	29	47·9	33·3	40·4	− 5·4	17	33	4	0·69	−0·05	33·7	+11·9	47	+17
	Oxford	52	32	48·6	35·0	41·6	− 5·5	18	28	4	0·39	−0·19	26·5	+ 4·9	37	+ 7
5. ENGLAND, S.	London	52	35	47·9	37·0	42·3	− 5·8	23	14	3	0·43	−0·21	14·4†	− 2·4†	20†	− 2†
	North Foreland	52	36	49·1	39·0	43·9	− 5·4	26	8	5	1·36	?	*	*	*	*
	Dungeness	54	32	50·0	35·6	42·6	− 7·1	31	18	5	1·47	+0·69	*	*	*	*
	Hastings (St. Leonards)	54	35	48·8	35·4	42·4	− 7·1	26	16	4	1·91	+1·01				
	Southampton	56	31	52·5	34·2	43·1	− 6·0	40	22	3	0·24	−0·58	34·1	+10·1	48	+15
	Hurst Castle	55	35	51·6	37·6	44·4	− 5·5	35	12	3	0·32	−0·48	*	*	*	*
	Stowell Ⓜ	51	31	47·9	33·6	40·3	− 8·1	17	30	3	0·36	−0·42	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	27	46·9	32·9	39·7	− 7·1	14	34	3	0·82	−0·90	*	*	*	*
	Glasgow	50	28	46·1	36·7	41·3	− 4·5	11	21	4	0·55	−0·33	19·2	+ 5·0	28	+ 8
	Ardrossan	50	29	47·9	37·0	42·3	− 5·3	23	14	3	0·40	−0·48	*	*	*	*
	Glenlee Ⓢ	48	21	46·2	32·8	39·3	− 6·1	12	34	4	0·76	−0·06	*	*	*	*
	Douglas (Isle of Man)	49	29	47·6	36·1	41·7	− 5·4	16	24	5	0·45	−0·60	15·9	− 5·1	23	− 8
7. ENGLAND, N.W.	Stonyhurst	48	29	44·9	33·9	39·2	− 6·7	8	29	3	0·90	−0·28	20·9	+ 3·9	30	+ 5
	Blackpool Ⓜ	50	28	47·9	33·8	40·6	− 6·9	17	31	5	0·90	−0·03	23·1	+ 5·1	33	+ 8
	Manchester (Prestwich)	49	29	47·3	32·7	39·8	− 6·7	15	35	4	1·05	+0·15	7·3	?	10	?
	Liverpool Obsy. (Bidston)	48	36	46·0	37·3	41·5	− 6·4	11	18	5	0·76	−0·01	*	*	*	*
	Llandudno Ⓜ	50	34	48·0	38·2	43·0	− 6·1	23	11	6	0·68	−0·24	*	*	*	*
	Holyhead	50	38	48·1	39·9	43·9	− 5·6	22	6	7	0·96	−0·04	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	22	50·6	26·4	38·1	− 9·7	24	58	5	0·99	−0·31	*	*	*	*
	Pembroke	52	38	49·0	40·3	44·5	− 5·7	25	5	7	1·71	+0·76	22·2	+ 0·7	31	0
	Clifton	51	32	46·9	34·9	40·7	− 6·4	14	27	3	1·40	+0·55	*	*	*	*
	Arlington (N. Devon)	50	31	49·1	34·9	41·8	− 6·6	20	28	5	1·04	−0·47	*	*	*	*
	Cullompton Ⓜ	52	26	49·7	31·7	40·4	− 8·8	22	39	4	0·47	−0·43	21·8	+ 1·8	31	+ 4
	Falmouth	53	37	49·6	39·7	44·5	− 5·9	27	6	6	1·36	+0·11	30·0	+ 4·5	42	+ 7
	Plymouth	54	37	50·9	38·6	44·6	− 5·3	32	10	6	0·49	−0·38	19·7	− 3·5	27	− 4
	Prawle Point	55	34	51·0	36·9	43·7	− 6·0	33	14	6	0·34	−0·52	*	*	*	*
9. IRELAND, N.	Malin Head	49	37	45·6	39·9	42·7	− 5·2	14	6	7	0·86	?	*	*	*	*
	Londonderry	50	33	47·4	37·9	42·5	− 4·1	21	11	7	0·99	+0·01	*	*	*	*
	Edenfel (Omagh)	48	28	45·9	34·1	39·8	− 5·1	11	29	6	1·04	+0·18	*	*	*	*
	Belmullet	51	25	48·4	38·4	43·3	− 6·4	24	10	7	1·69	+0·48	*	*	*	*
	Markree Castle	48	26	47·2	32·9	39·8	− 6·1	15	34	5	1·53	+0·49	15·9	− 3·9	23	− 5
	Armagh	52	30	46·5	24·0	40·1	− 5·7	13	30	5	0·61	−0·09	20·9	+ 2·9	30	+ 3
	Donaghadee	53	37	48·0	39·3	43·5	− 3·5	22	8	6	0·48	−0·32	*	*	*	*
	Edgeworthstown	50	27	47·0	33·0	39·8	− 6·0	14	34	4	0·60	−0·15	*	*	*	*
10. IRELAND, S.	Dublin	50	30	46·6	36·7	41·5	− 6·6	13	21	5	0·88	+0·16	18·5	− 4·5	26	− 7
	Parsonstown	50	25	47·3	31·7	39·3	− 7·3	15	38	3	0·53	−0·12	22·8	+ 2·8	33	+ 4
	Kilkenny	50	26	46·9	34·1	40·3	− 7·5	14	30	5	0·65	−0·12	*	*	*	*
	Roche's Point	50	34	48·3	38·1	43·1	− 6·8	24	11	4	0·29	−0·69	*	*	*	*
	Valencia	51	32	49·4	35·9	42·5	− 7·7	29	17	7	1·23	−0·10	12·4	−10·0	17	−14
	Killarney	51	28	48·1	32·2	39·9	− 9·3	17	37	6	?1·54	?	*	*	*	*
	Foynes	49	29	47·2	35·8	41·3	− 6·0	14	24	5	1·16	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	54	42	51·3	43·3	47·2	− 5·0	36	0	7	1·41	+0·58	20·3	?	28	?
	Jersey	56	40	53·0	42·3	47·5	− 4·3	39	0	7	1·54	+0·45	28·6	+ 1·6	40	+ 3

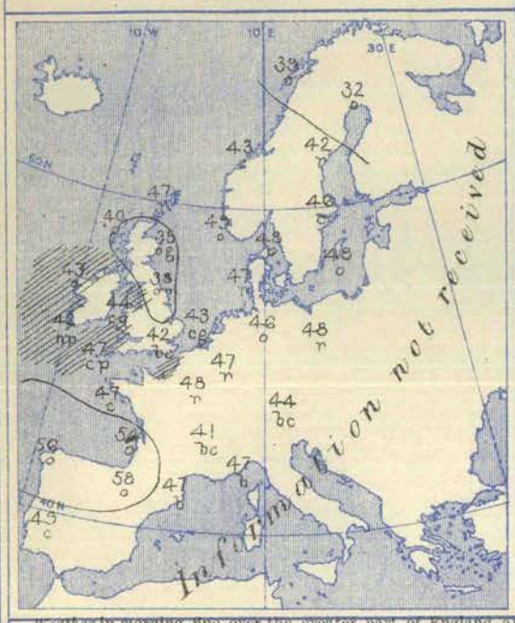
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 18th October.

Temperature and Weather. 8 a.m.

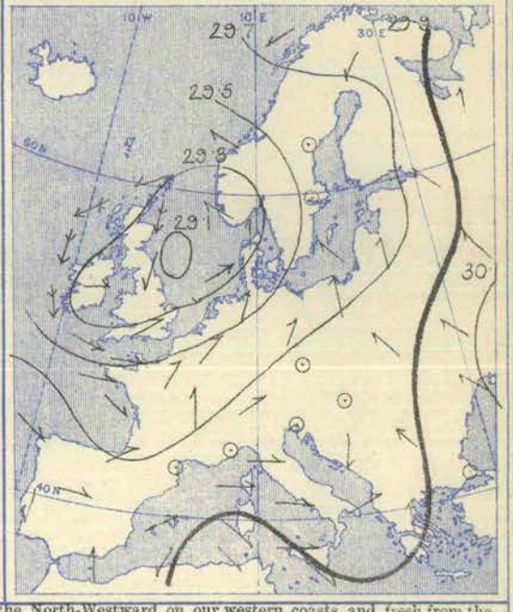


Weather in morning fine over the greater part of England, and also in the south of France. Cloudy or overcast in nearly all other parts of western Europe, with rain or passing showers in many places (morning reports from eastern and southern Europe not received). Rain falling later in nearly all parts of our Islands and the Continent—heavily in the north-east of Great Britain, as well as at some of the French, Italian, and Austrian stations. Thunder heard at Spurn Head, and lightning seen at night at Prawle Point and Yarmouth.

Temperature fallen at all but the Scandinavian and German stations. Morning readings highest, (1) 59° at Biarritz, 56° at Corunna, and 54° at Rochefort; (2) 49° at Skudesnaes, and 48° at Faerder, Skagen, and Wisby. Lowest, (1) 32° at Haparanda, and 39° at Bodö; (2) 35° at Nairn and Aberdeen, and 37° at Parsonstown (below 45° over the United Kingdom generally). Daily maxima below 50° in most parts of our Islands; thermometer exceeding 60° over southern Europe, and reaching 77° at Palermo and Malta. Ground frost occurring at night over the inland parts of England.

Barometer and Wind. 8 a.m.

6 p.m.

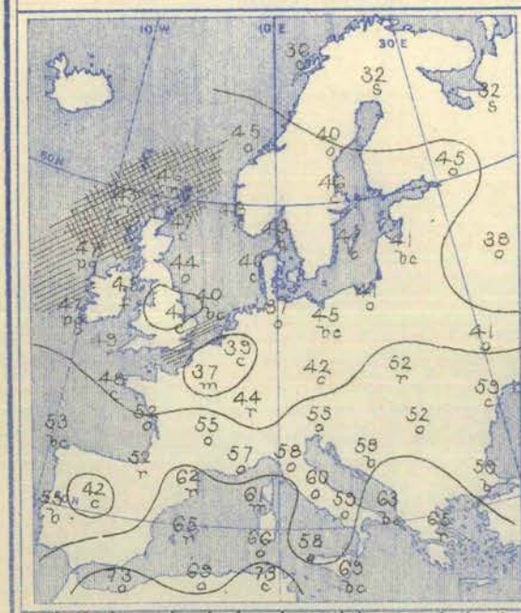


Wind strong to a gale from the North-Westward on our western coasts, and fresh from the same quarter in the west of France. Light from the Westward over the eastern parts of England; moderate from the South-Westward or Southward over Denmark, Germany, the Netherlands, and central France. Light or moderate from the Eastward in Scandinavia, and also in the north-east of Scotland. Subsequently veering to the North-Eastward on our northern coasts, and increasing to a gale in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 29·9 ins. and upwards over the Spanish Peninsula, and also over Lapland. Lowest, 29·2 ins. and less in a complex depression lying over Scotland, the north-east of England, and the central parts of the North Sea. Depression subsequently moving slowly southwards, and barometer rising briskly on our extreme northern coasts.

Monday, 19th October.

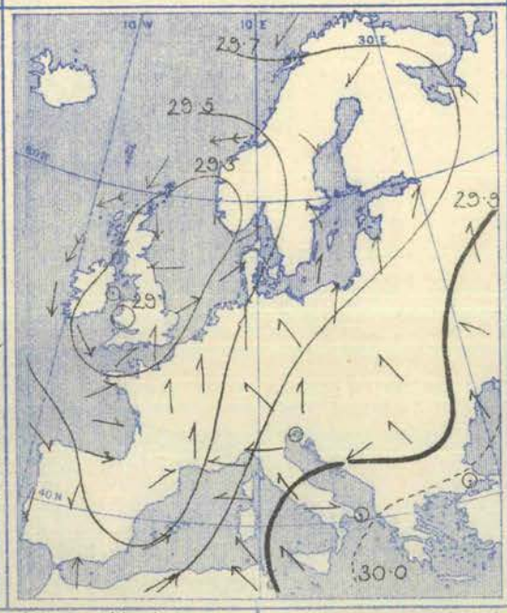
Temperature and Weather. 8 a.m.



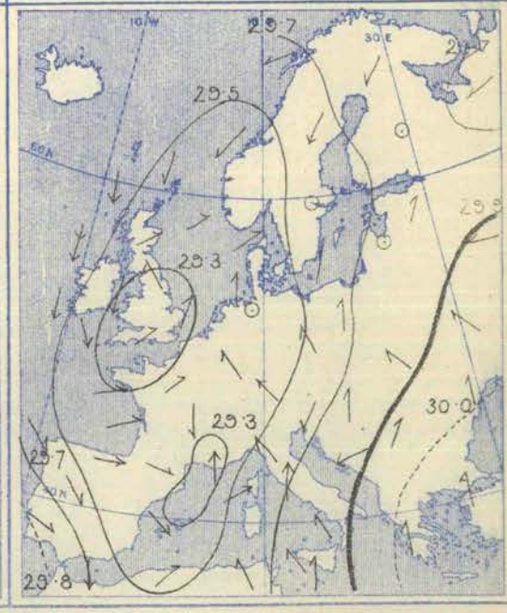
Weather in morning cloudy and unsettled over nearly the whole of Europe, with rain in many parts of the western and southern countries, and with snow in the north of Russia. Fine at some of the Swedish, Danish, and German stations, and also in Portugal. Heavy rain falling during day in many parts of Great Britain, France, and Italy—as much as 3·7 ins. at Nice.

Temperature risen in the west and north of our Islands, and also in Russia, but fallen in most other localities. Morning readings highest, 73° at Sfax, 73° at Nemours and La Calle, and 69° at Algiers and Malta; above 60° at the Mediterranean stations generally. Lowest, (1) 30° at Haparanda, 32° at Uleaborg and Archangel, 33° at Hangö; (2) 36° at Loughborough, and 37° at York, Cambridge, and Paris. Daily maxima below 45° at many of the English stations, but above 50° on our west and south-west coasts. Exceeding 65° in many parts of southern Europe, and reaching 73° at Malta. Ground frost occurring over central England at night.

Barometer and Wind. 8 a.m.



6 p.m.



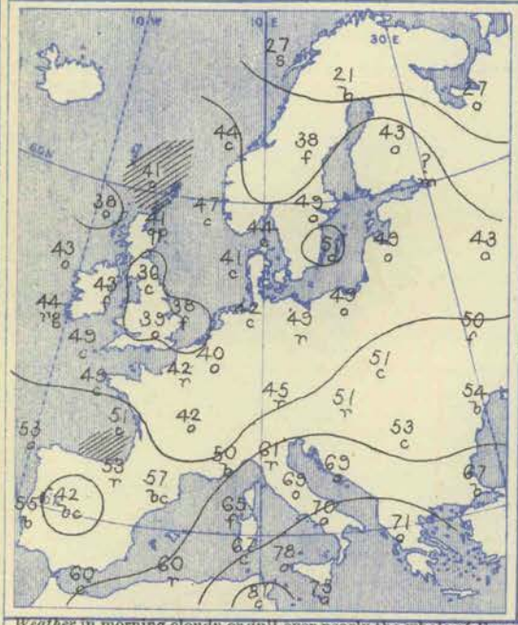
Wind strong to a gale from the Eastward in the west of Norway, from the North-Eastward in the north of Scotland, and from the Northward in Ireland. Light to moderate from West or South-West over the Channel and Bay of Biscay, and from the Southward over the eastern parts of England and France, as well as over the Netherlands, Denmark, Germany, and Russia. Calm or variable over Italy and Austria, Northerly in Spain, Southerly or South-Westerly in Algeria. Gale in north of Scotland subsiding later; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone over the south of Russia. Lowest, 29·1 ins. and less in a small depression over the west of England. Depression subsequently moving slowly north-eastwards and partially filling up; barometer rising steadily on our western and northern coasts. New disturbance forming off the south of France.

Tuesday, 20th October.

Temperature and Weather.

8 a.m.

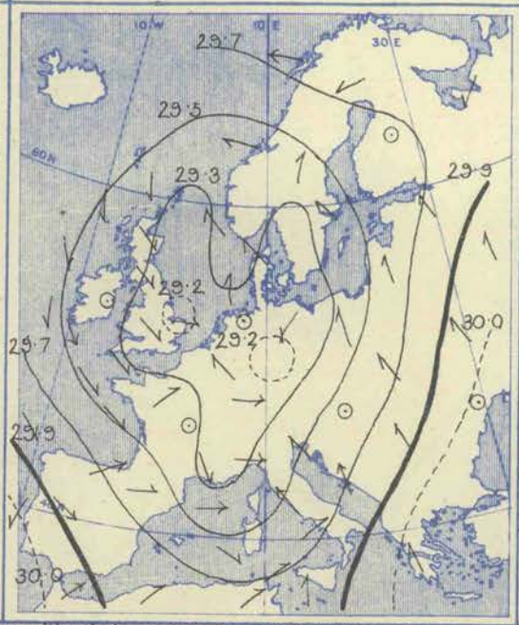


Weather in morning cloudy or dull over nearly the whole of Europe, with rain in many parts of the western, central, and southern countries, and snow at Bodö. Fine in some parts of central Europe, as well as over the Spanish Peninsula and the extreme south of France. Rain falling during day over western, central, and northern Europe generally—heavily in Finland and Sweden, and also in the south-west of France. Snow reported in Lapland, and sleet showers in the north of Scotland.

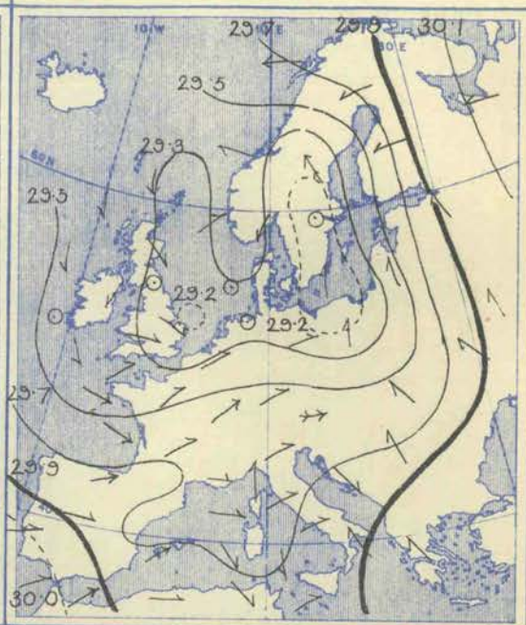
Temperature fallen a little over western and northern Europe generally, but risen elsewhere. Morning readings highest, 81° at Sfax, 78° at Palermo, 75° at Malta, and 72° at Tunis; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 21° at Haparanda, 26° at Uleaborg, and 27° at Bodö and Archangel; (2) 36° at Shields and Loughborough, and 37° at Oxford. Daily maxima below 50° over the United Kingdom as a whole, and below 45° at some of our northern and eastern stations; thermometer exceeding 60° in many parts of southern Europe, and reaching 82° at Palermo and Malta. Ground frost occurring in many parts of our Islands at night.

Barometer and Wind.

8 a.m.



6 p.m.



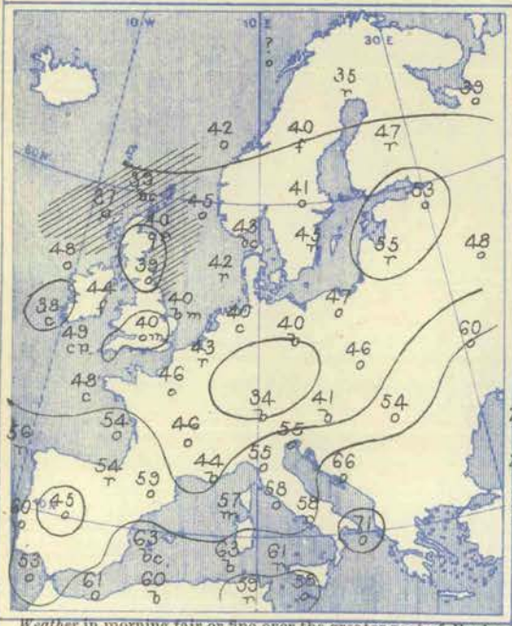
Wind light to fresh from the Northward on our northern coasts, and from the North-Westward in the south of our Islands, the north and west of France, and the Spanish Peninsula; light from the South-Eastward in the Netherlands. Variable over western Germany, moderate to strong from the South-Westward in Italy; Southerly or South-Easterly over Austria, Russia, eastern Germany, and the Baltic; Easterly in the north of Scandinavia. Subsequently falling light over our Islands generally, but remaining Northerly or North-Westerly in direction. South-Easterly gale setting in at Hernösand.

Barometer highest, 30·0 ins. and upwards in an anticyclone lying to the south-west of the Spanish Peninsula, and also in another system over south-eastern Europe. Lowest, 29·2 ins. and less in two small depressions—one lying off the east of England, and the other over central Germany. No important change occurring over western Europe during day, but German depression moving northwards.

Wednesday, 21st October.

Temperature and Weather.

8 a.m.

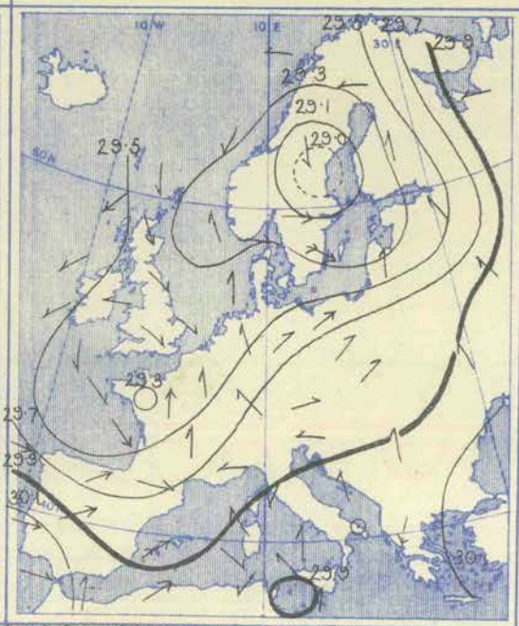


Weather in morning fair or fine over the greater part of England and the south of Ireland, as well as over the Netherlands, Germany, and the extreme south of France, cloudy or dull in nearly all other parts of Europe, with showers at some of our own northern stations, and with steady rain over Sweden and the neighbouring parts of Russia, as well as in many parts of France and Italy. Rain falling later in all but the extreme southern parts of Europe—heavily in places. Thunder and lightning occurring at several of our own western and southern stations.

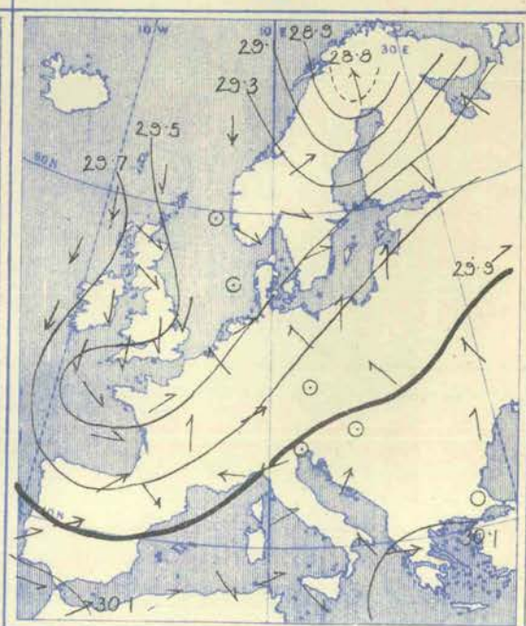
Temperature fallen in most places. Morning readings highest, 73° at Athens, 71° at Brindisi, and 66° at Lesina, above 60° at most of the Mediterranean and Adriatic stations. Lowest, (1) 32° at Parsonstown, and 34° at Cambridge; (2) 34° at Munich; (3) 35° at Haparanda, 37° at Uleaborg, and 39° at Archangel. Daily maxima below 45° in the north of Scotland, but slightly above 50° at some of our central and southern stations; exceeding 60° in many parts of southern Europe, and reaching 77° at Brindisi. Frost occurring at night in many parts of our Islands.

Barometer and Wind.

8 a.m.



6 p.m.



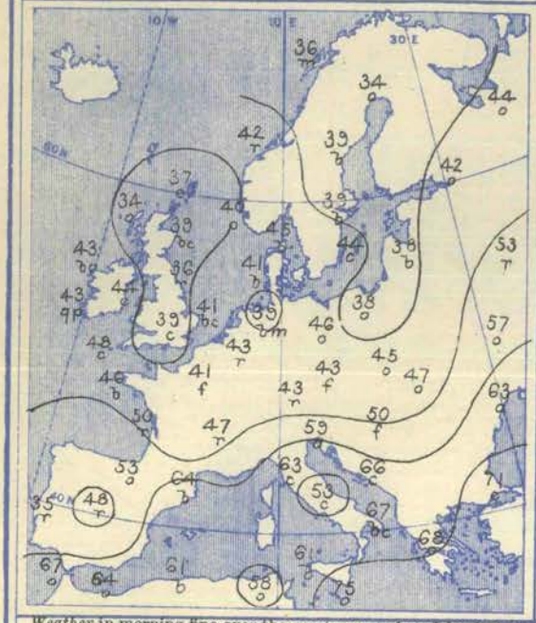
Wind light to fresh from the Northward or North-Eastward on our own western and northern coasts; light from West or North-West in the east and south-east of England, and fresh to strong from the same quarters over the Bay of Biscay and the Spanish Peninsula. Southerly (South-East to South-West) over Italy and all the more central and eastern parts of Europe. Strong to a gale from the Westward over the Baltic and south of Sweden, but light or moderate from East or North-East over the northern parts of Scandinavia. Subsequently veering to the Northward in the south-east of England; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticlycone lying to the south of Spain; 30·0 ins and upwards in another system over Russia. Lowest, 29·0 ins. and less in a well-marked depression over the southern part of the Gulf of Bothnia, 29·4 ins. and less in a shallow disturbance over the south-west of England and the north-west of France. Northern depression subsequently moving northwards, and barometer rising in most places.

Thursday, 22nd October.

Temperature and Weather.

8 a.m.

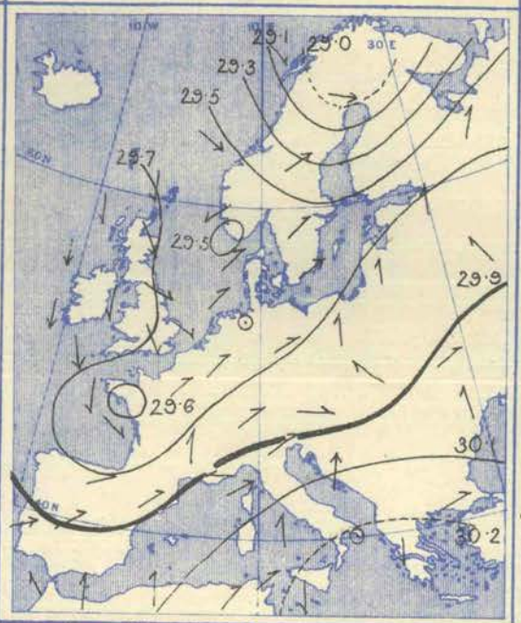


Weather in morning fine over the greater part of our Islands, but showery at some of the northern stations. Cloudy in most of the Continental countries, with rain in many places. Fine in Denmark and Sweden, as well as over southern Italy and the extreme south of France. Showers falling during day in many parts of the United Kingdom, and heavy rain at several of the Continental stations—as much as 2·3 ins. at Gap. Thunderstorms occurring at Jersey, and also in the south of France, and lightning seen at Scilly.

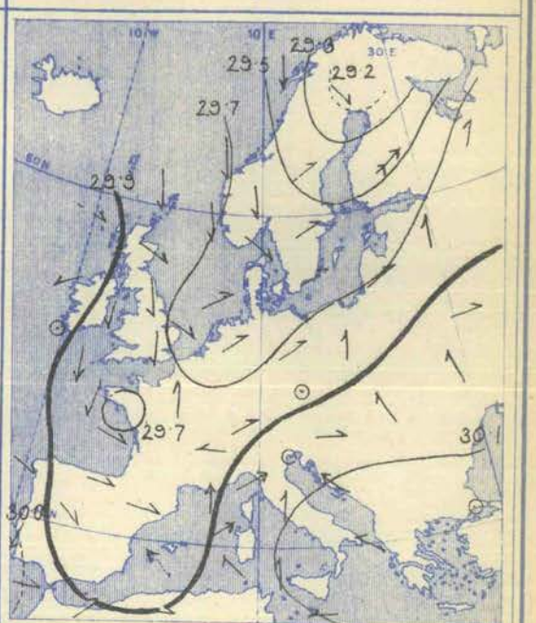
Temperature changed rather irregularly, but fallen in most countries. Morning readings highest, 75° at Malta, 71° at Constantinople, 70° at Sfax, and 68° at Athens; above 60° at the Mediterranean and Adriatic stations generally, and also in the extreme south of Russia. Lowest, (1) 32° at Parsonstown, and 34° at Stornoway and Loughborough (below 40° over the greater part of our Islands); (2) 34° at Haparanda, and 36° at Bodö. Daily maxima below 45° at several of our northern stations, and below 50° over the United Kingdom generally; thermometer exceeding 60° over southern Europe generally, and reaching 75° at Palermo. Sharp frost occurring over our northern and inland districts at night.

Barometer and Wind.

8 a.m.



6 p.m.



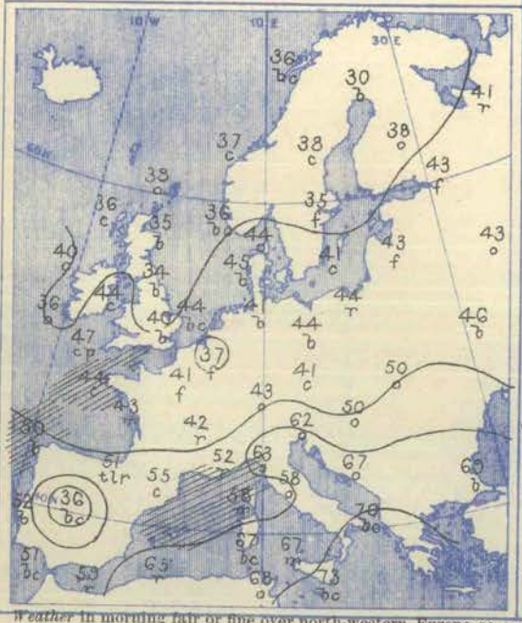
Wind moderate to fresh from the Northward on our western and northern coasts, light from the North-Westward in the east and south-east of England. Light to moderate from the Westward over the Bay of Biscay and the Spanish Peninsula, and from the Southward or South-Westward over central France, Italy, Germany, Denmark, and the Netherlands. Strong from the South-Westward in Sweden, but from the North-Westward in the west of Norway. Southerly or South-Easterly over the central and southern parts of Russia. Subsequently backing to the North-Westward in Scotland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone over Greece, southern Italy, and the central parts of the Mediterranean. Lowest, 29·0 ins. and less in a well-marked depression over the north of Scandinavia; 29·5 ins. and less in a shallow secondary system off the south of Norway; 29·6 ins. and less in another shallow system over the north-west of France. No important change occurring over western Europe during day.

Friday, 23rd October.

Temperature and Weather.

8 a.m.

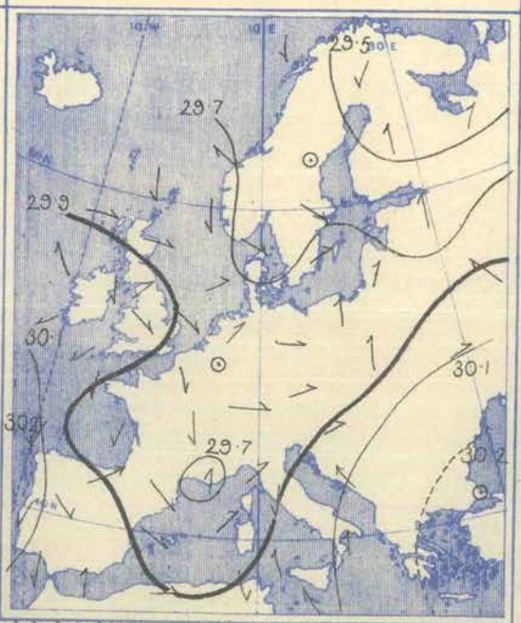


Weather in morning fair or fine over north-western Europe as a whole, but showery at a few of our own western stations, dull and unsettled over the central, southern, and eastern parts of the Continent generally, with rain over northern Italy and the south and east of France, as well as at Archangel and Neufahrwasser; thunderstorm reported at Biarritz. Fine over the Spanish Peninsula and the south of Italy. Rain setting in later over the west and north of our Islands, and spreading eastwards during the night. Thunderstorm occurring at Biarritz.

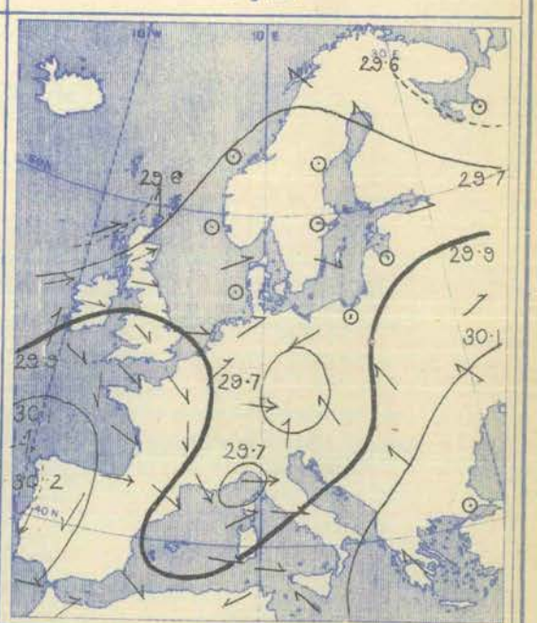
Temperature fallen in most countries, but rain in Italy, and also in north Germany. Morning readings highest, 73° at Malta, 70° at Brindisi, and 69° at Constantinople; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 28° at Parsonstown, and 29° at Loughborough; (2) 30° at Haparanda, and 34° at Uleaborg; (3) 36° at Madrid. Daily maxima below 45° at several of our own northern stations, below 50° in all but the extreme southern parts of the Kingdom. Thermometer rising to 55° and upwards in the south of France, to 60° and upwards in Spain, and to 70° and upwards in Italy; reaching 84° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



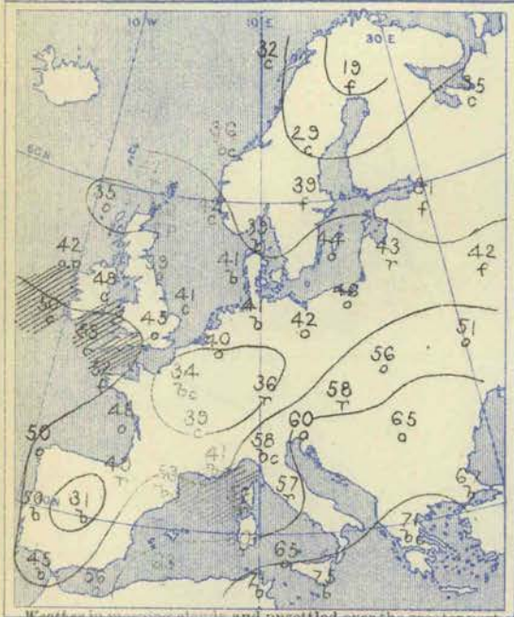
Wind light from the Westward in Scotland, from the North-Westward in the east of England, and from the Northward or North-Eastward over our south-west coasts, the Bay of Biscay, and Portugal. Westerly or South-Westerly over the south of France, and also over Germany and Denmark. Southerly (South-East to South-West) over Italy, Austria, and Russia; Northerly in the south of Scandinavia. Subsequently backing to the Southward or South-Westward on our western and northern coasts, and increasing considerably in force.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the Portuguese coasts, and also in another system over the Black Sea and Asia Minor. Lowest, 29·5 ins. and less in a large shallow area over the northern parts of Sweden and Russia; 29·7 ins. and less in a small depression over the south of France. New disturbance approaching our northern coasts later from the westward, and barometer falling briskly in Ireland and Scotland.

Saturday, 24th October.

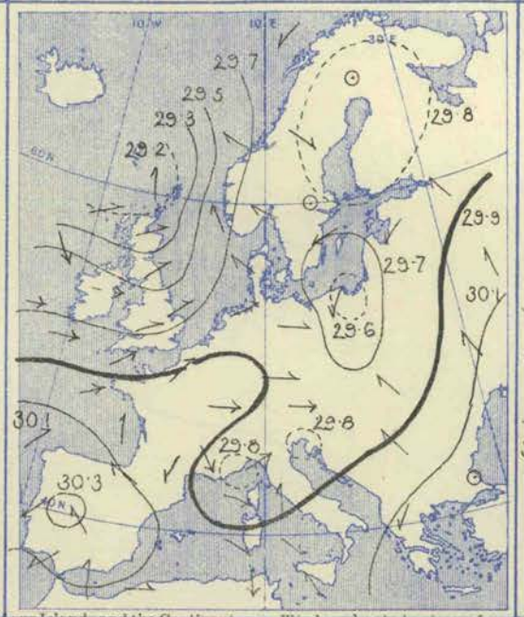
Temperature and Weather.

8 a.m.

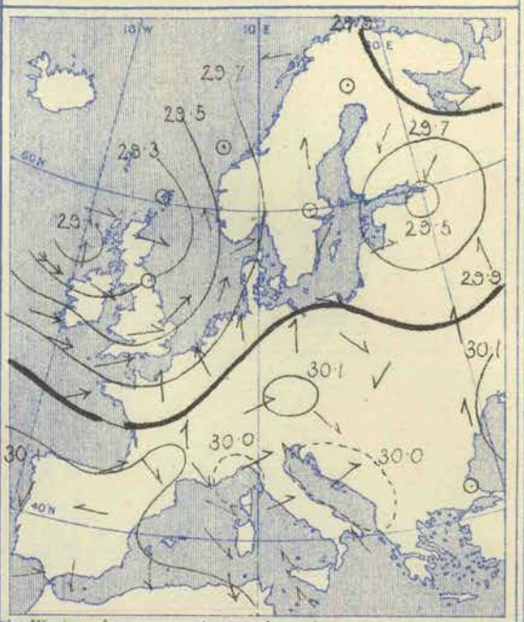


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over the greater part of our Islands and the Continent, with steady rain or passing showers in many places, and with hail in the north of Ireland. Foggy over Sweden and central Russia. Fine over Norway and Denmark, as well as over the Spanish Peninsula and the central and southern parts of France. Rain falling later in many parts of Europe—heavily in places. Thunderstorms occurring at many of our own southern and eastern stations.

Temperature risen in our Islands and the neighbouring parts of the Continent, but fallen elsewhere. Morning readings highest, 75° at Malta, 71° at Athens and Sfax, and 67° at Patras and Constantinople; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 19° at Haparanda, and 29° at Uleaborg and Hernösand; (2) 32° at Le Mans, 34° at Paris, and 35° at Belfort and Munich; (3) 35° at Stornoway and 38° at Nairn. Rising during day to 50 and upwards at many of the English and Irish stations, and reaching 55° at Jersey, exceeding 60° over southern Europe as a whole, and reaching 79° at Malta. Sharp frost occurring in Scotland at night; sheltered thermometer at Nairn falling to 19°.

Wind moderate to strong from the Westward on our western and northern coasts, and from the South-Westward in the south and east. Light to moderate from the Westward in Germany and Denmark, but South-Easterly in Norway. Light from South-East over central and southern Russia, but from North-East over the Baltic. Variable over southern Europe generally. Subsequently increasing to a gale from the Westward on many parts of our western and southern coasts; falling light and variable in Scotland.

Barometer highest, 30·30 ins. at Madrid; 30·1 ins. and upwards in an anticyclone lying over the whole of the Spanish Peninsula, and also in another system over Asia Minor, the Black Sea, and the south of Russia. Lowest, 29·2 ins. and less in a depression off the north of Scotland; 29·6 ins. and less in another disturbance over the Baltic provinces; 29·8 ins. and less in two small systems lying over the Gulf of Genoa and northern Italy. Well-marked secondary depression appearing later off the north of Ireland, and barometer falling briskly on our north-west coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier part of last week the weather over western and central Europe remained under the influence of the complex depression which had previously spread down from the northward, the wind being strong to a gale from the North-Westward on our western coasts, but moderate from the South-Westward in the south, and from the South-Eastward or Eastward over the more northern countries. The weather was in a cloudy, unsettled state generally, with heavy rain in many places (especially in the south of France), and with thunder and lightning at some of our own southern stations.

Towards the middle of the week the depression moved slowly eastwards and north-eastwards and gradually dispersed, while an anticyclone spread temporarily over the south-western parts of Europe from the westward. On the night of the 23rd, however, a new depression of considerable size advanced to our extreme northern coasts, while on the following day numerous secondary disturbances advanced over Ireland and England. Westerly winds of increasing force now set in on our western and southern coasts, while unsettled weather spread over north-western Europe generally, with thunder and lightning in the south and east of our Islands.

Throughout nearly the whole week there was a tendency for the development of small depressions over northern Italy and the Gulf of Genoa. These disturbances occasioned heavy rain in many parts of southern Europe, while from the newspaper reports it appears that severe snowstorms were experienced in Switzerland.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	19·2	- 8·0	15	- 10	SOUTHPORT	17·8	?	25	?
OSWALDKIRK (Yorkshire)	26·0	+ 8·9	37	+ 12	MANCHESTER (Oldham Road)	21·7*	?	31*	?
WORKSOP	19·6	+ 2·2	28	+ 4	COLWYN BAY	18·9	?	27	?
THURCASTON (Leicestershire)	23·4	+ 4·9	33	+ 7	TENBY				
MARGATE	20·5	- 1·9	29	- 2	NEWQUAY	23·6	- 0·4	33	- 1
WESTBOURNE (Sussex)	32·0*	+ 9·0	45*	+ 13	TORQUAY	25·1*	+ 2·6	35*	+ 4
BRIGHTON	32·3	+ 6·5	46	+ 9	ARLEY COTTAGE (County Cavan)	20·9	+ 1·7	30	+ 2
EASTBOURNE	29·2	+ 5·2	41	+ 8	GUERNSEY	22·9*	- 0·8	32*	- 1

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 44.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 31ST, 1896. [*Price 6d.* *Annual Subscription, post paid,* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 260.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	20	42·4	32·9	37·5	6 below	1	−25	31	+19	2036	+163	401	−264
	1. SCOTLAND, EAST	52	17	43·8	32·3	37·9	5 below	5	−23	34	+19	2364	+108	517	−182
	2. ENGLAND, N.E.	48	24	44·7	32·4	38·4	7 below	8	−24	34	+26	2630	+186	387	−183
	3. ENGLAND, EAST	51	27	48·2	32·8	40·3	5 below	17	−22	35	+25	2978	+153	453	−190
	4. MIDLAND COUNTIES	50	26	45·4	31·3	38·2	7 below	10	−26	39	+27	2943	+143	449	−208
	5. ENGLAND, SOUTH	55	28	50·2	36·6	43·2	5 below	31	−14	15	+9	3324	+252	268	−227
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	22	45·0	32·7	38·7	7 below	8	−26	34	+24	2575	+198	315	−176
	7. ENGLAND, N.W.	49	25	44·9	33·9	39·2	7 below	8	−29	29	+23	2880	+276	256	−220
	8. ENGLAND, S.W.	52	23	47·6	34·8	41·0	7 below	16	−30	28	+25	3201	+321	206	−165
	9. IRELAND, NORTH	50	27	45·5	34·7	39·9	6 below	10	−27	27	+20	2701	+197	229	−185
	10. IRELAND, SOUTH	55	25	45·8	33·9	39·7	8 below	11	−34	30	+24	3118	+282	158	−160
	—CHANNEL ISLANDS	54	36	50·6	42·2	46·3	5 below	30	−36	0	0	3737	+449	39	−109

Rainfall.

	DISTRICTS. (See p. 260.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	14	1 more	208	+6	47·4	+5·7
	1. SCOTLAND, EAST	5	7	0 (average)	174	+8	24·0	−3·2
	2. ENGLAND, N.E.	6	11	5 more	156	+1	19·8	−2·0
	3. ENGLAND, EAST	4	3	4 less	154	+2	20·8	−0·9
	4. MIDLAND COUNTIES	4	4	2 less	151	+3	20·2	−3·2
	5. ENGLAND, SOUTH	4	7	1 less	140	−4	20·7	−3·0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	2	9 less	181	+8	37·3	−2·2
	7. ENGLAND, N.W.	4	5	5 less	167	+6	29·3	+0·5
	8. ENGLAND, S.W.	3	5	6 less	149	−14	25·4	−6·6
	9. IRELAND, NORTH	5	6	3 less	192	+4	33·7	+2·9
	10. IRELAND, SOUTH	4	4	5 less	164	−5	29·6	−2·4
	—CHANNEL ISLANDS	7	10	1 more	165	−6	23·6	−3·1

Bright Sunshine.

	DISTRICTS. (See p. 260.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	10	−3	16	−4	945	−65	24	−1
	1. SCOTLAND, EAST	11	−5	17	−7	1188	−13	30	0
	2. ENGLAND, N.E.	16	0	24	0	1156	−43	29	−1
	3. ENGLAND, EAST	33	+13	49	+21	1386	−46	35	−1
	4. MIDLAND COUNTIES	25	+10	38	+16	1247	−31	32	−1
	5. ENGLAND, SOUTH	38	+18	56	+27	1480	−21	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	25	+9	39	+15	1267	−4	32	0
	7. ENGLAND, N.W.	12	−2	17	−6	1186	+5	32	0
	8. ENGLAND, S.W.	35	+14	51	+22	1611	+65	41	+2
	9. IRELAND, NORTH	22	+4	34	+7	1129	−46	28	−2
	10. IRELAND, SOUTH	19	−1	29	−1	1311	−26	33	−1
	—CHANNEL ISLANDS	25	0	36	0	1794	+9	46	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied considerably. Frequent rain was experienced in the western and northern districts, and also in the Channel Islands. Over the greater part of England, however, the weather, although showery at times, with occasional thunder and lightning, was often fine and bright, especially during the latter part of the week.

Temperature was again much below the mean, the deficit ranging from 5° to 7° over the greater part of the Kingdom, and to 8° in Ireland S. The highest of the maxima, which were recorded during the earlier part of the period, ranged from 55° in England S. and Ireland S., to 47° in Scotland N. The lowest of the minima were registered on the 25th in Scotland, and later in the week elsewhere. They were very low generally for the time of year, ranging from 17° to 22° in Scotland, from 23° to 28° over England, and from 25° to 27° over Ireland. In the Channel Islands the thermometer did not fall below 36°.

Rainfall exceeded the mean in Scotland N. and England N.E., and also in the Channel Islands, and just equalled it in Scotland E.; elsewhere, however, the fall was less than the mean, especially in Scotland W.

Bright Sunshine exceeded the mean over the Kingdom generally, the excess being very striking in most of the English districts and in Scotland W.; in England N.E. and the Channel Islands, however, the amount recorded was just equal to the normal, while in Scotland N. and E., England N.W., and Ireland S., there was a deficiency. The percentage of the possible duration ranged from 56 in England S., 51 in England S.W., and 49 in England E., to 17 in Scotland E. and England N.W., and 16 in Scotland N.

Barometer and Wind.—At the commencement of the week a complex area of low pressure lay over England, with strong winds or gales from between North and North-West in the west, and from the Westward or South-Westward in the south. This system gradually moved away eastwards and dispersed, the wind becoming Northerly over the whole Kingdom. No disturbances, other than small secondary systems, appeared over our Islands during the remainder of the period, but a well-marked depression moving north-north-eastwards over France, and the appearance of another over the mouth of the Channel caused the wind to shift to the North-Eastward in all our more southern districts. By the end of the week these disturbances had disappeared, but depressions still lay to the southward of the United Kingdom, one over the north-east of France, and the other over the Bay of Biscay.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 259 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	33	43·9	37·0	40·4	- 3·5	5	18	6	1·84	+0·82	*	*	*	*
	Stornoway	45	30	42·9	32·9	37·8	- 5·8	3	32	7	2·10	+0·92	15·1	- 0·7	24	- 1
	Wick	47	25	43·9	33·1	38·3	- 5·2	5	31	6	1·15	+0·38	*	*	*	*
	Lairg Ⓢ	44	20	40·7	29·4	34·9	?	0	50	7	1·09	?	*	*	*	*
	Glencarron Ⓢ	43	23	40·8	31·3	35·9	- 7·6	0	43	4	0·93	-1·20	*	*	*	*
	Fort Augustus Ⓢ	45	21	42·5	32·3	37·3	- 7·3	1	34	6	1·87	+0·95	3·4	- 6·1	5	- 9
	Fort William Ⓢ	45	26	42·2	34·1	38·0	- 6·6	1	27	5	0·44	-1·28	12·5	- 1·0	20	- 1
1. SCOTLAND, E.	Nairn	45	19	42·6	31·4	36·8	- 6·3	2	36	6	1·10	+0·60	*	*	*	*
	Aberdeen	47	29	44·7	33·0	38·7	- 5·3	8	32	7	0·79	+0·14	18·1	- 1·3	28	- 1
	Braemar Ⓢ	40	17	38·4	28·6	33·4	- 7·2	0	60	7	0·95	+0·02	7·8†	- 2·7†	12†	- 5†
	Ochtertyre Ⓢ	48	26	47·0	33·4	40·0	- 3·6	14	32	2	0·07	-0·91	*	*	*	*
	Leith	52	29	46·4	35·0	40·5	- 4·6	12	26	4	0·45	+0·03	*	*	*	*
	Marchmont Ⓢ	47	25	43·9	32·6	38·1	- 4·8	5	33	4	0·77	+0·03	11·0	- 5·8	17	- 9
2. ENGLAND, N.E.	Alnwick Castle	46	26	43·4	31·6	37·3	- 7·3	4	36	5	1·28	+0·60	*	*	*	*
	Durham	48	26	44·3	30·7	37·3	- 6·5	6	40	7	1·72	+1·02	21·5	+ 4·7	33	+ 8
	Shields	48	30	45·7	32·9	39 1	- 6·3	10	33	7	1·11	+0·53	*	*	*	*
	Scarborough Ⓜ	47	29	45·0	33·8	39·2	- 6·7	8	29	5	0·78	+0·06	*	*	*	*
	York	47	24	44·4	29·1	36·5	- 8·1	7	45	4	0·79	+0·19	10·2	- 5·6	15	- 8
	Spurn Head	48	35	45·4	36·4	40·8	- 5·9	19	21	5	0·87	+0·33	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	50	29	47·8	31·8	39·6	- 5·5	16	38	6	0·32	-0·29	24·6	+ 6·8	37	+10
	Yarmouth	48	34	47·3	35·3	41·1	- 5·6	15	26	5	0·63	-0·07	*	*	*	*
	Geldeston	51	27	49·6	33·4	41·3	- 4·6	21	34	5	0·20	-0·45	31·9	+11·9	47	+20
	Cambridge	50	29	48·4	31·6	39·8	- 5·8	18	39	2	0·13	-0·40	36·1	+16·1	53	+25
	Rothamsted	50	27	47·9	31·7	39·6	- 5·0	17	39	3	0·04	-0·66	39·0	+18·0	57	+27
4. MIDLAND COUNTIES	Harrogate Ⓜ	45	30	42·6	32·5	37·4	- 7·8	2	33	6	0·69	?	11·8	?	18	?
	Bawtry (Hesley Hall)	47	27	44·6	30·1	37·1	- 7·2	7	42	5	0·78	+0·20	*	*	*	*
	Loughborough	50	26	46·9	30·9	38·7	- 6·4	14	41	4	0·18	-0·42	*	*	*	*
	Stamford (Duddington)	49	30	44·6	32·1	38·2	- 7·6	7	35	3	0·29	-0·29	*	*	*	*
	Cheadle Ⓜ	47	28	44·6	31·4	37·8	- 6·3	7	38	5	0·46	-0·37	*	*	*	*
	Shirley (near Solihull)	49	26	44·6	30·3	37·2	- 7·7	7	41	2	0·15	?	*	*	*	*
	Churchstoke Ⓜ	50	28	44·7	31·0	37·7	- 7·2	8	39	3	0·29	-0·33	22·1	+ 4·4	33	+ 8
	Hereford Ⓜ	50	28	46·3	30·5	38·2	- 7·2	12	42	3	0·36	-0·22	*	*	*	*
	Cirencester	50	26	47·1	31·0	38·8	- 5·6	14	40	2	0·51	-0·22	34·0	+14·0	50	+21
	Oxford	50	30	48·4	32·9	40·4	- 5·2	18	35	2	0·57	+0·01	37·3	+17·6	55	+27
5. ENGLAND, S.	London	52	29	48·4	33·9	40·9	- 5·9	18	31	2	0·05	-0·59	25·5†	+10·5†	38†	+18†
	North Foreland	52	35	49·9	38·7	44·1	- 3·5	29	9	5	1·35	?	*	*	*	*
	Dungeness	54	37	51·9	39·6	45·6	- 2·7	35	7	5	1·54	+0·76	*	*	*	*
	Hastings (St. Leonards)	55	38	51·9	39·1	45·3	- 2·6	35	8	4	1·06	+0·17	41·9	+19 9	62	+29
	Southampton	54	29	51·6	34·2	42·6	- 5·0	37	22	3	0·07	-0·73	42·9	+21·4	63	+32
	Hurst Castle	54	34	51·0	38·1	44·4	- 4·1	33	11	4	0·19	-0·61	*	*	*	*
	Stowell Ⓜ	50	28	46·7	32·4	39·3	- 7·7	13	35	2	0·14	-0·64	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	27	45·2	33·3	39·1	- 6·8	9	32	3	0·16	-1·59	*	*	*	*
	Glasgow	47	30	44·0	34·7	39·2	- 5·6	6	26	1	0·22	-0·66	22·6	+10·1	35	+17
	Ardrossan	50	31	46·1	34·0	39·9	- 6·3	11	30	2	0·03	-0·86	*	*	*	*
	Glenlee Ⓢ	47	22	44·1	29·7	36·7	- 7·3	6	43	3	0·15	-0·70	*	*	*	*
	Douglas (Isle of Man)	50	29	45·6	31·7	38·4	- 7·6	10	37	4	0·60	-0·48	27·4	+ 8·6	42	+13
7. ENGLAND, N.W.	Stonyhurst	45	25	42·1	31·1	36·4	- 8·3	0	37	3	0·36	-0·82	12·0	- 2·8	18	- 4
	Blackpool Ⓜ	48	26	45·8	30·5	37·9	- 8·0	11	41	3	0·27	-0·63	14·4	- 1·0	22	- 1
	Manchester (Prestwich)	47	28	44·5	31·3	37·7	- 7·3	7	38	4	0·53	-0·35	7·9	?	12	?
	Liverpool Obsy. (Bidston)	46	30	45·0	34·4	39·5	- 7·1	8	27	4	0·42	-0·31	*	*	*	*
	Llandudno Ⓜ	47	33	45·1	37·5	41·2	- 6·7	9	17	4	0·50	-0·41	*	*	*	*
	Holyhead	49	37	47·0	38·7	42·7	- 5·4	19	9	6	0·65	-0·35	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	23	47·4	28·3	37·6	- 8·9	15	50	4	0·89	-0·39	*	*	*	*
	Pembroke	48	36	46·9	38·0	42·3	- 6·9	19	11	2	0·74	-0·21	33·1	+14·0	49	+29
	Clifton	48	31	44·5	34·3	39·3	- 5·8	7	28	2	0·31	-0·54	*	*	*	*
	Arlington (N. Devon)	50	29	45·6	33·3	39·3	- 7·7	10	32	3	0·79	-0·83	*	*	*	*
	Cullompton Ⓜ	52	25	48·8	31·3	39·8	- 8·0	19	40	1	0·17	-0·73	29·9	+11·7	44	+19
	Falmouth	51	35	48·1	39·0	43·4	- 5·5	22	8	4	0·36	-0·92	39·2	+16·0	57	+23
	Plymouth	51	30	49·1	36·2	42·5	- 6·3	28	16	3	0·13	-0·71	37·9	+15·7	55	+27
	Prawle Point	51	34	50·0	37·6	43·6	- 4·6	30	12	4	0·68	-0·17	*	*	*	*
9. IRELAND, N.	Malin Head	47	24	45·1	38·3	41·6	- 5·1	9	14	6	0·70	?	*	*	*	*
	Londonderry	49	33	46·4	35·8	40·9	- 4·2	12	23	6	0·93	-0·07	*	*	*	*
	Edenfel (Omagh)	46	27	43·9	33·4	38·5	- 5·4	5	30	6	0·66	-0·19	*	*	*	*
	Belmullet	49	36	46 1	38·0	41·9	- 6·8	11	16	5	1·05	-0·22	*	*	*	*
	Markree Castle	49	28	45·8	32·7	39·1	- 5·7	11	34	5	0·66	-0·38	17·3	- 0·9	26	- 1
	Armagh	49	29	45·7	31·3	38·3	- 6·3	10	39	4	0·23	-0·49	29·7	+13·5	45	+19
	Donaghadee	50	32	47·0	36·6	41·7	- 4·2	14	22	4	0·29	-0·53	*	*	*	*
	Edgeworthstown	47	28	44·0	31·3	37·5	- 7·1	6	38	4	0·49	-0·29	*	*	*	*
10. IRELAND, S.	Dublin	47	31	41·9	34·2	39·4	- 7·7	8	28	7	0·60	-0·13	17·9	- 3·0	27	- 4
	Parsonstown	47	28	44·7	31·3	37·8	- 7·8	8	38	4	0·38	-0·23	19·5	+ 1·7	29	+ 1
	Kilkenny	48	25	45·6	31·7	38·4	- 8·2	10	37	5	0·46	-0·32	*	*	*	*
	Roche's Point	49	34	47·3	36·0	41·5	- 7·4	15	24	1	0·05	-0·97	*	*	*	*
	Valencia	49	32	46·7	37·6	42·0	- 7·4	13	12	5	0·77	-0·62	20·2	- 0·3	30	0
	Killarney	55	27	46·5	31·2	38·6	- 9·4	13	39	4	0·60	?	*	*	*	*
	Foynes	47	30	45·0	35·1	39·9	- 6·2	8	25	3	0·11	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	42	49·4	43·0	46·1	- 5·3	29	0	6	0·58	-0·24	28·4	?	41	?
	Jersey	54	36	51·7	41·4	46·4	- 4·2	33	2	7	1·50	+0·39	21·2	- 3·4	31	- 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

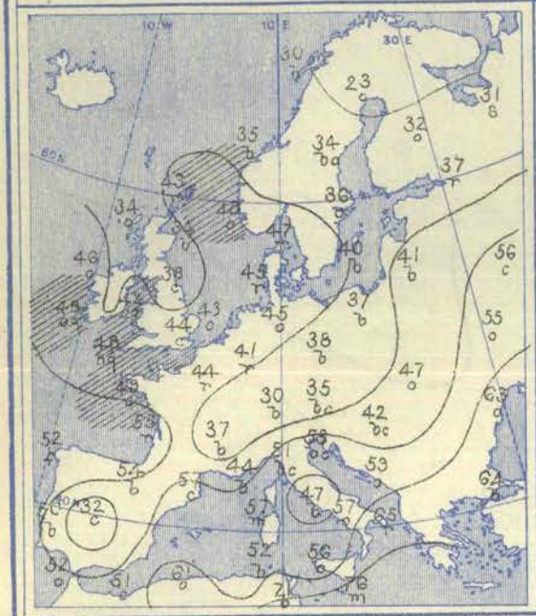
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

NOTE.—It will be observed that LAIRG has been re-inserted in the list of stations in Scotland N.

Sunday, 25th October.

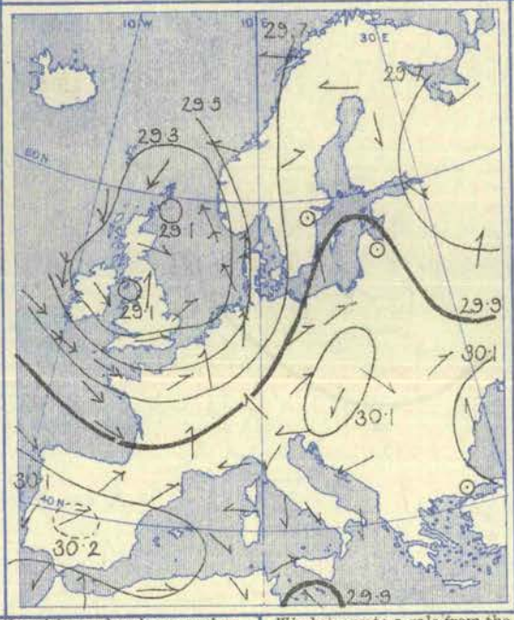
Temperature and Weather.

8 a.m.

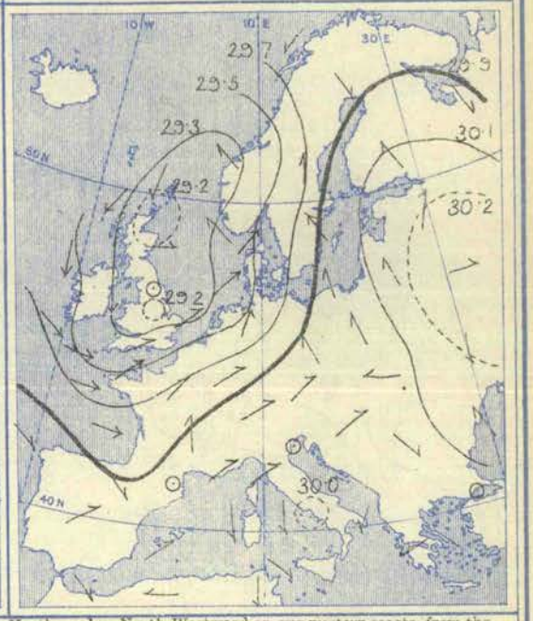


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very changeable over western Europe generally, with steady rain or passing showers in many places. Fine at many of the Scandinavian stations, as well as in Austria, northern Italy, and the southern parts of Germany and France; cloudy over the Spanish Peninsula and southern Italy, with rain at Brindisi. Dull in Russia, with rain at St. Petersburg and snow at Archangel. Rain falling later over nearly the whole of Europe—heavily in the Shetlands and Hebrides, and also in the south-west of France; snow reported in the north of Scotland. Thunderstorms occurring in the south and south-east of England.

Temperature risen over the southern countries and also over the Netherlands, fallen elsewhere. Morning readings highest, 76° at Malta, 71° at Sfax, 65° at Brindisi, and 64° at Constantinople; above 50° at the Mediterranean and Adriatic stations generally. Lowest, (1) 23° at Haparanda, 27° at Uleaborg, and 30° at Bodö; (2) 28° at Nairn, and 34° at Stornoway and Aberdeen; (3) 30° at Munich and 34° at Vienna. Daily maxima below 45° at most of our northern stations, but above 50° in the south of England. Thermometer exceeding 60° over southern Europe generally. Sharp frost occurring in the north of Scotland at night.

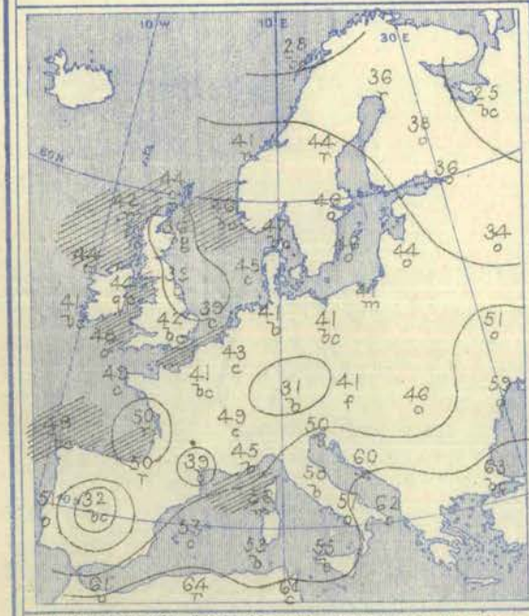
Wind strong to a gale from the Northward or North-Westward on our western coasts, from the Westward in the English Channel, and from the Southward or South-Eastward over Denmark, north Germany, and the south of Scandinavia. Moderate from the Southward in the east of England, light from the Westward in the north-east of Scotland. Northerly or North-Westerly over northern Russia, but Southerly or South-Westerly in the south of that country. Variable over the Spanish Peninsula and the southern parts of France and Germany; Northerly in Italy. Subsequently veering to the South-Westward in Denmark; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone over central Spain; 30·1 ins. and upwards in another system over the Black Sea and the south of Russia. Lowest, 29·1 ins. and less in two depressions—one lying over the Irish Sea and the other off the north-east of Scotland; 29·7 ins. and less in a large shallow system over the north of Russia. Depressions in our neighbourhood subsequently moving eastwards and partially filling up; barometer rising over western Europe generally.

Monday, 26th October.

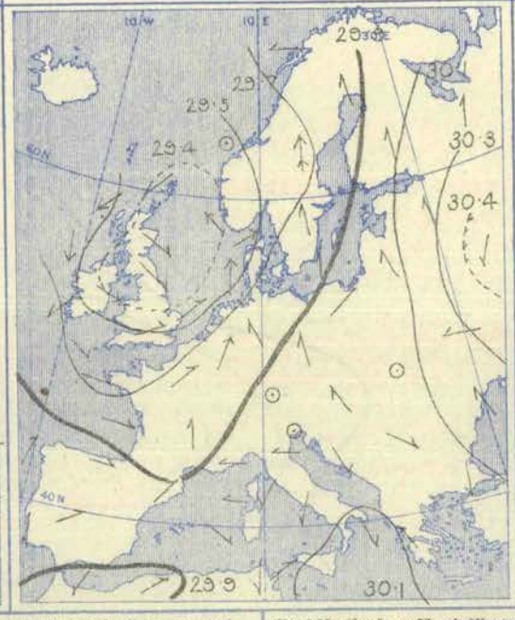
Temperature and Weather.

8 a.m.

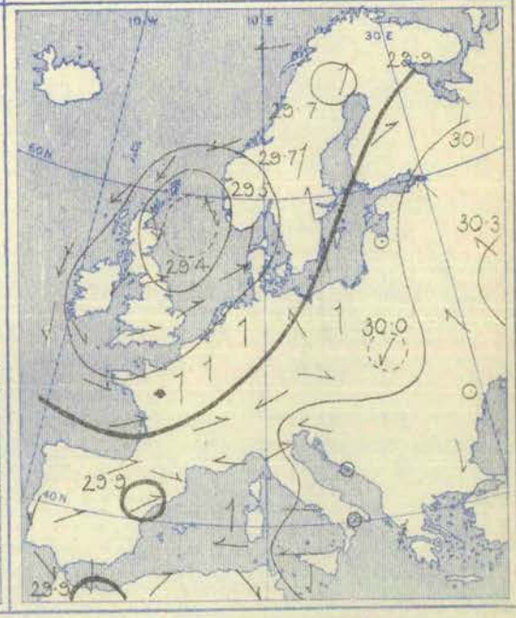


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the south of our Islands, as well as over Denmark, Germany, and the greater part of southern Europe. Cloudy or dull elsewhere, with rain or passing showers at several of our own northern stations, as well as in the west of France, the Netherlands, and many parts of Scandinavia. Rain falling later over western Europe as a whole—heavily in places. Thunderstorms occurring in the evening or night at several of the English Channel stations.

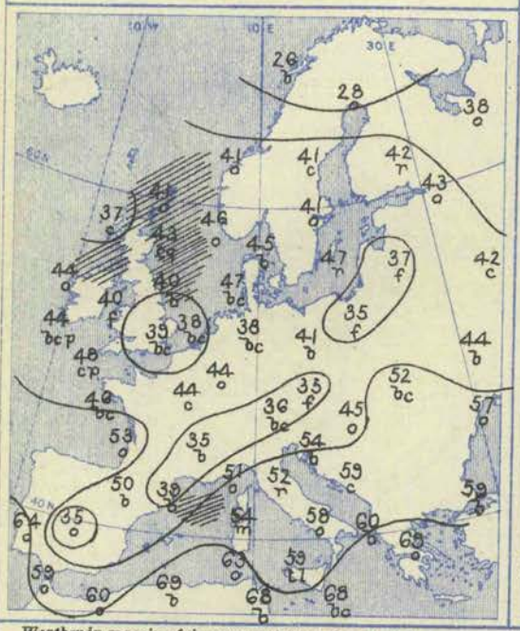
Temperature fallen a little over England, France, and Holland, and also in Russia, but risen in most other countries. Morning readings highest, 69° at Patras, 66° at Athens, and 64° at Algiers; above 55° at the Mediterranean and Adriatic stations generally. Lowest, (1) 25° at Archangel and 28° at Bodö; (2) 30° at York and 34° at Nairn; (3) 31° at Munich; (4) 32° at Madrid. Rising during day to 50° and upwards over the central and southern parts of England, to 60° and upwards over southern Europe generally, and to 70° at Palermo and Malta. Sharp frost occurring in the north of England at night.

Wind Northerly or North-Westerly on our western and northern coasts, with a gale at Malin Head; moderate to fresh from the Westward over the Channel and Bay of Biscay; light from South or South-West over central France and the east of England. Strong to a gale from South or South-East over Scandinavia and Denmark, and light or moderate from the same quarters over Germany and Russia. Northerly or North-Easterly in Italy, variable over Spain and the south of France. Subsequently falling light on our southern coasts, but increasing from the North-Eastward in the north of Scotland.

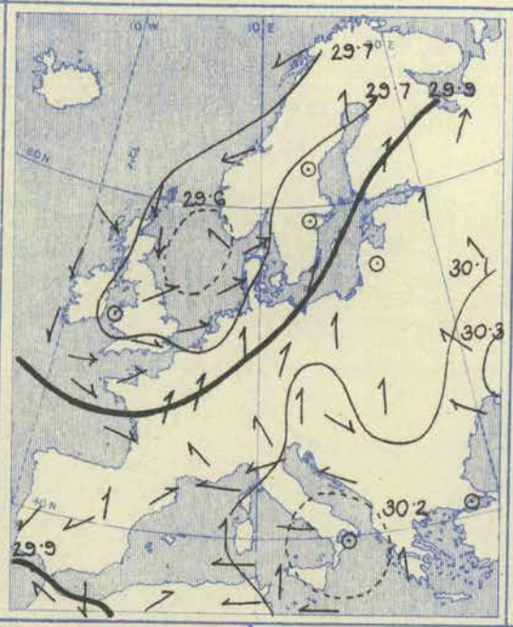
Barometer highest, 30·4 ins. and upwards in an anticyclone over central Russia. Lowest, 29·4 ins. and less in a complex depression over the North Sea and the northern parts of our Islands. Depression filling up gradually later, but shallow secondary disturbances appearing over various parts of our western and southern districts.

Tuesday, 27th October.

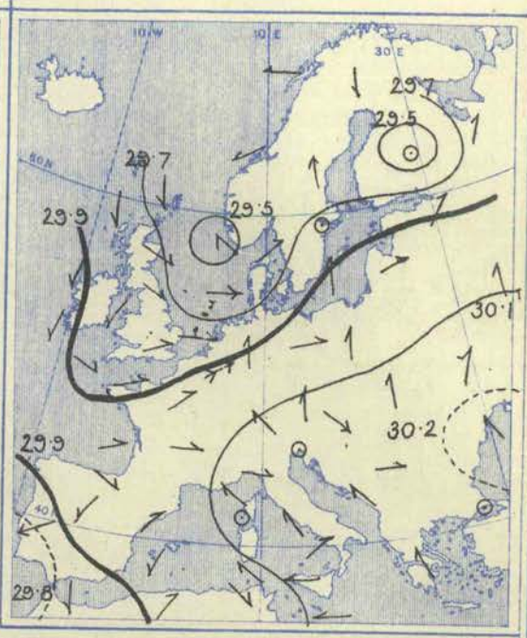
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over western and central Europe as a whole, but showery in the south-west of our Islands, and rainy on the Kentish coast. Foggy in the north of England, as well as in many parts of Germany and western Russia; dull over Sweden and northern Russia, with rain at Kuopio. Dull in Spain, rainy over northern Italy; thunderstorm reported at Palermo. Rain falling later in many parts of western and northern Europe, rather heavily in places. Thunderstorm occurring at Fanö, and lightning seen at Skudesnaes, as well as on some parts of our south and south-east coasts.

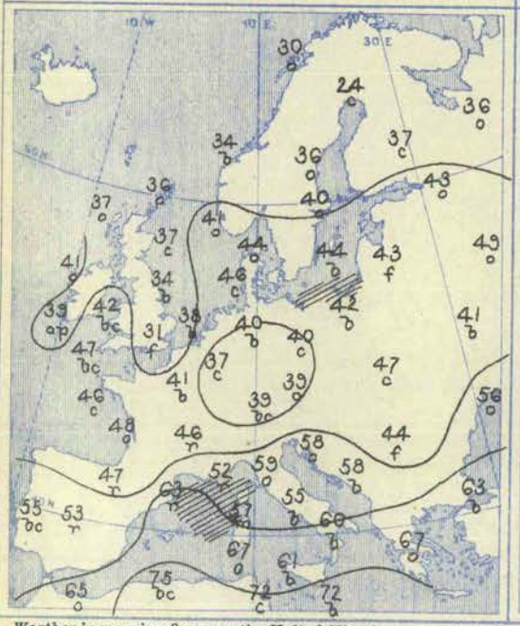
Temperature risen in Ireland and Scotland, as well as over southern Europe generally, fallen elsewhere. Morning readings highest, 69° at Patras and Algiers, and 68° at Malta and Sfax; above 60° over the central and southern parts of the Mediterranean generally. Lowest, (1) 26° at Bodö and 28° at Haparanda; (2) 26° at York and 31° at Loughborough. Rising during day to 50° and upwards at most of our own central and southern stations, to 60° and upwards over southern Europe generally, and to 70° and upwards over southern Italy. Sharp frost occurring at night over the central parts of England and Ireland.

Wind moderate to fresh from the Northward in Ireland and Scotland, light from the Westward over England and the west of France. Light from the Southward over central France, the Netherlands, Germany, and Russia; moderate to strong from the South-Westward in Denmark and the south of Sweden; Easterly in the west of Norway. Variable in Greece and Italy; Easterly or North-Easterly over the Spanish Peninsula and the extreme south of France. No important change occurring over western Europe during day.

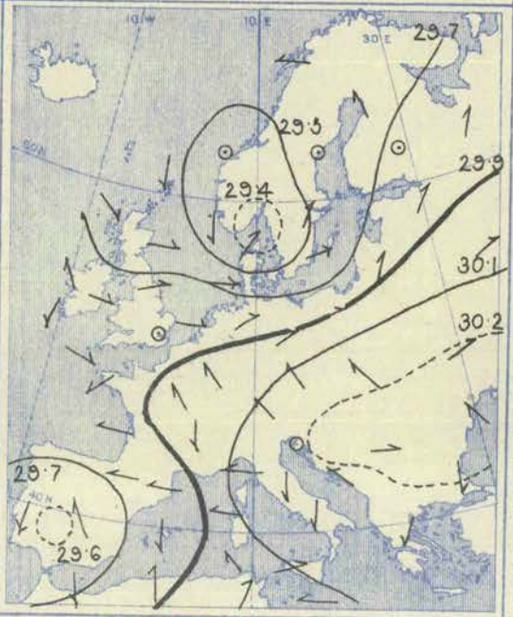
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the south of Russia; 30·2 ins. and upwards in another system over southern Italy. Lowest, 29·6 ins. and less in a large shallow depression over the North Sea. Depression subsequently moving north-eastwards, and becoming somewhat deeper; shallow secondary disturbances moving across our Islands from the northward.

Wednesday, 28th October.

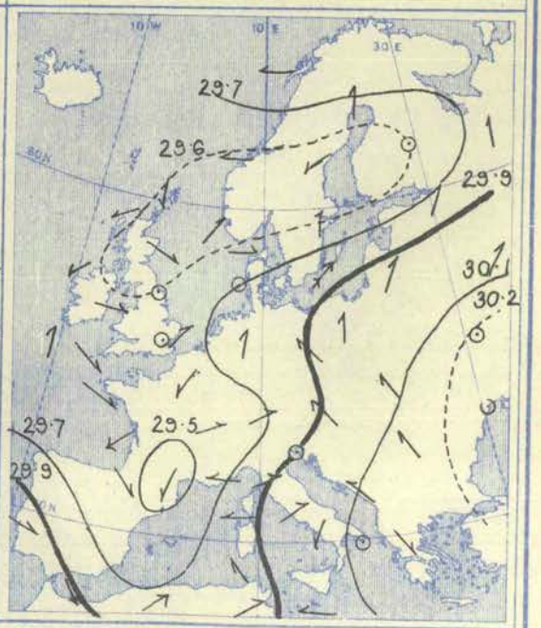
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the United Kingdom as a whole, but foggy over central England, and dull on our extreme western and northern coasts, with showers at Valencia (Ireland). Fine in many parts of Germany and Italy, but foggy in Austria, and cloudy in most of the Continental countries, with rain in Spain and the south of France, as well as at Florence. Showers falling later in many parts of the United Kingdom, heavy rain at the French and Belgian stations. Thunderstorms occurring at night or early next morning at Spurn Head and Prawle Point, and also at Nice.

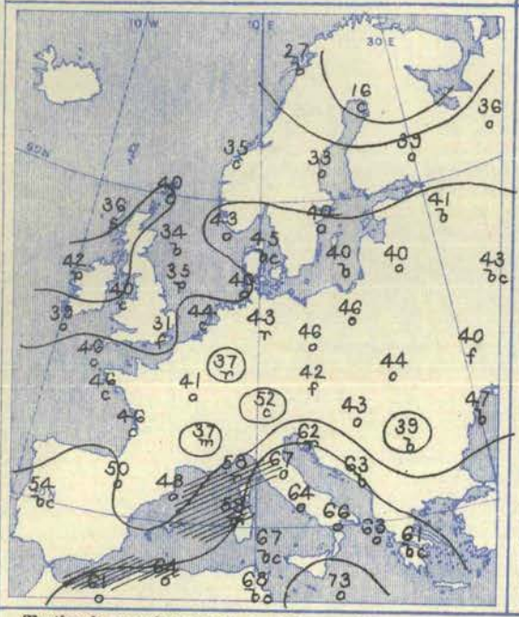
Temperature fallen in the western and northern countries, but risen elsewhere. Morning readings highest, 75° at Algiers, and 72° at Malta and Sfax; above 60° at the Mediterranean stations generally. Lowest, (1) 24° at Haparanda, 30° at Bodö, and 34° at Christiansund; (2) 29° at Parsonstown, 30° at Oxford, and 31° in London and at Cambridge. Daily maxima below 45° at many of our northern stations, and below 50° in all but the extreme southern parts of the Kingdom. Thermometer exceeding 60° in the southern parts of France and Germany, and exceeding 70° in Italy. Frost occurring over Great Britain at night.

Wind light from the Westward or North-Westward over the greater part of our Islands, but calm or variable over central England. Moderate to strong from the South-Westward over Denmark, north Germany, the Baltic, and central Russia; calm or variable over the northern parts of Russia and Scandinavia. South-Easterly over the southern parts of Russia and Germany; Northerly in Italy; Easterly over Spain and the west and south of France. Subsequently veering to the North-Eastward on our extreme north-west coasts. Shifting to the Southward in the south of Ireland, but to the Northward in the west of France.

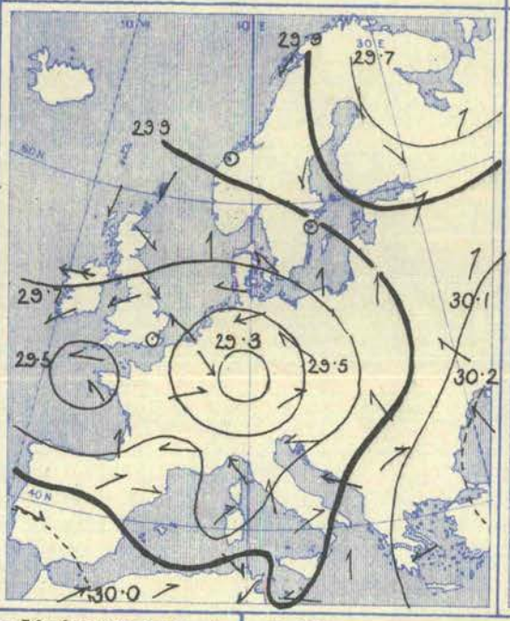
Barometer highest, 30·2 ins. and upwards over Austria, the south of Russia, and the Black Sea. Lowest, 29·4 ins. and less in a depression having its centre over the Christiania Fiord; 29·6 ins. and less in another disturbance over the south-west of Spain. Former system filling up later. Spanish disturbance moving quickly north-eastwards to the south of France.

Thursday, 29th October.

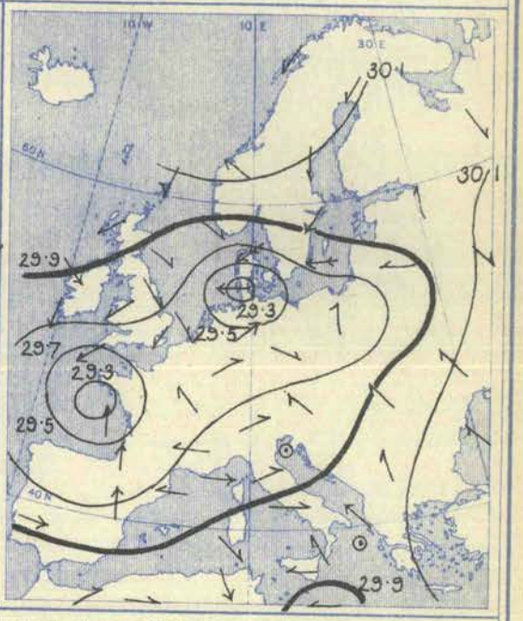
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent. Fog reported over the inland parts of England, and rain, hail or snow at several of our northern stations; rain falling also over Denmark, north Germany, the Netherlands, and the eastern parts of France, as well as at Turin and Trieste. Fine over the central and southern parts of Russia, but with fog in places: Rain falling later in many parts of western Europe—heavily in Denmark, and also in the west of France; thunder and lightning reported over the north of England.

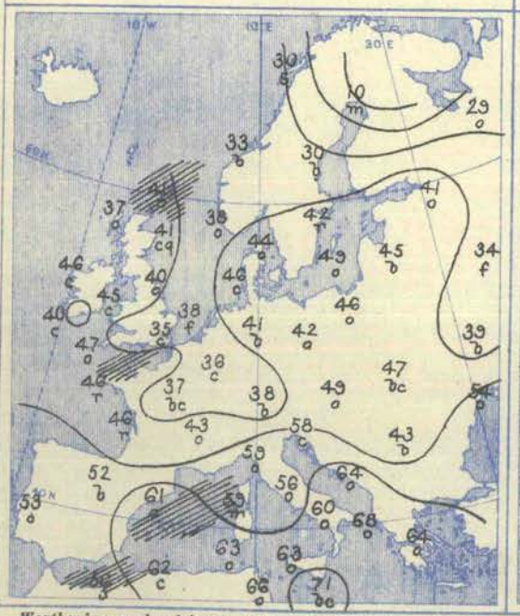
Temperature risen in Germany, Austria, and Italy, changed rather irregularly elsewhere. Morning readings highest, 73° at Malta, 68° at La Calle and Sfax, and 67° at Leghorn, Cagliari, and Tunis; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 16° at Haparanda, 27° at Bodö, 31° at Carlstad; (2) 31° in London, 32° at York and Liverpool. Daily maxima below 45° at many of our own western and northern stations, and also in London; thermometer exceeding 60° over southern Europe generally, and exceeding 70° in southern Italy. Frost occurring in many parts of our Islands at night.

Wind light to moderate from the Eastward or North-Eastward over the greater part of our Islands, and fresh or strong from the same quarters over Denmark, Holland, and north Germany. Westerly over the east and south of France, Southerly in Italy, and South-Easterly over Austria, eastern Germany, and the south of Russia. South-Westerly over the northern and central parts of Russia, variable in Scandinavia. Subsequently increasing to a strong breeze from the Southward in the west of France, and from the Eastward over the western parts of the Channel. Easterly gale springing up in Denmark and the south of Sweden.

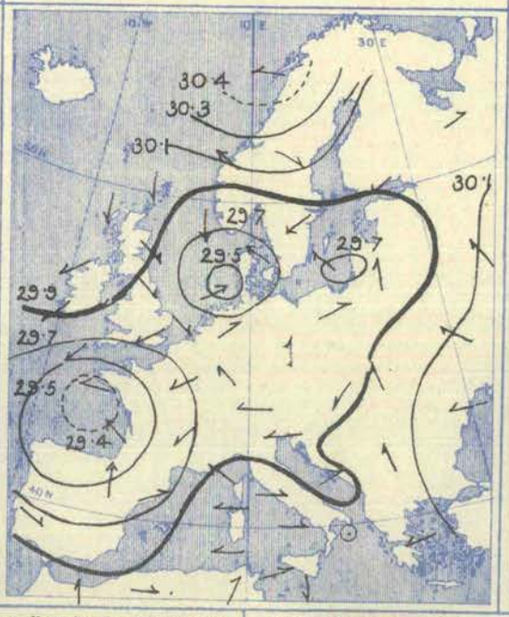
Barometer highest, 30·2 ins. over the Black Sea and the south of Russia; 30·0 ins. and upwards over Morocco and the south of Spain. Lowest, 29·3 ins. and less in a well-marked depression over western Germany; 29·5 ins. and less in a shallower system lying off the mouth of the English Channel. German depression subsequently moving slowly northwards; Channel depression remaining stationary and growing deeper.

Friday, 30th October.

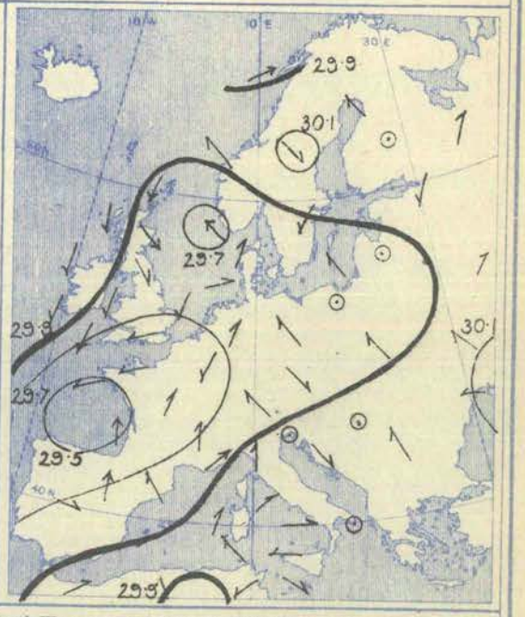
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of our Islands, as well as in the Netherlands, western Germany, and the east and south of France. Cloudy or dull in most other parts of the Continent, with rain in the west of France, and also at Stockholm and Helsingfors. Snow reported at Bodö, and fog over the central and southern parts of Russia. Showers falling later in several parts of the United Kingdom, and heavy rain at many of the French stations—as much as 2·5 ins. at Lyons. Thunderstorms occurring at Jersey, and also over the southern parts of France.

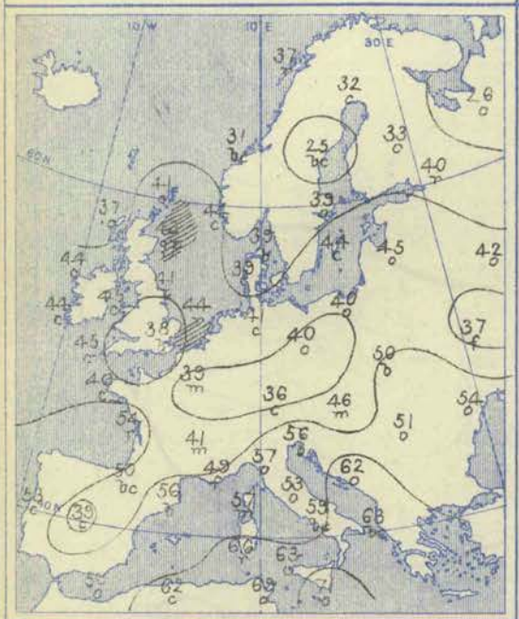
Temperature changed rather irregularly. Morning readings highest, 71° at Malta, 68° at Brindisi, 66° at Sfax; above 60° at most of the Mediterranean and Adriatic stations. Lowest, (1) 10° at Haparanda, 22° at Uleaborg, and 29° at Archangel; (2) 27° at Kharkov; (3) 32° at Cambridge and 35° in London; (4) 33° at Belfort and 34° at Wiesbaden. Daily maxima below 45° in the north of Scotland; thermometer reaching 50° at several of the English Channel stations, exceeding 60° over southern Europe generally, and exceeding 70° in the south of Italy.

Wind moderate from West or South-West over the Spanish Peninsula and the extreme south of France, fresh or strong from South-East in the west of France, and from North-East over the western parts of our Islands. Easterly or North-Easterly over Scandinavia and northern Russia; moderate from the North-Westward along the east coasts of Great Britain; South-Westerly in Denmark and north Germany. Variable over Austria and south Germany; light from East or South-East in the south of Russia, but from the Westward in Italy. Subsequently increasing to a strong breeze from the Eastward in the English Channel, and from the Northward in the north of Scotland.

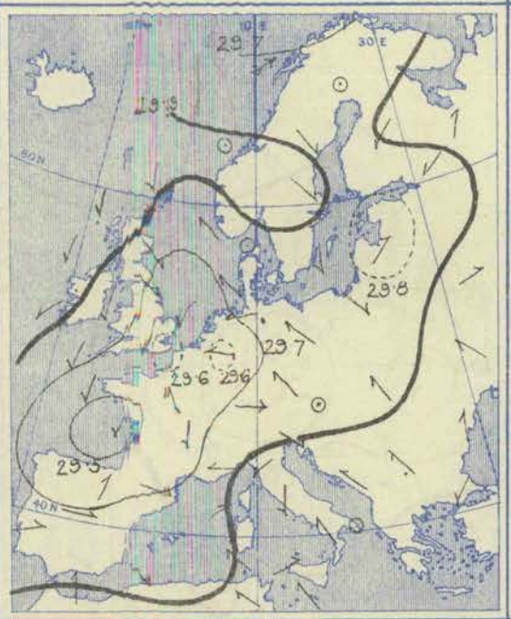
Barometer highest, 30·4 ins. and upwards in an anticyclone off the north-west of Norway; 30·2 ins. and upwards in another system over the south of Russia. Lowest, 29·4 ins. and less in a depression over the northern parts of the Bay of Biscay; 29·5 ins. and less in another disturbance over Denmark; 29·7 ins. and less in a shallow system over the Baltic. Depression over Bay of Biscay subsequently moving slowly southwards; Danish disturbance moving northwards.

Saturday, 31st October.

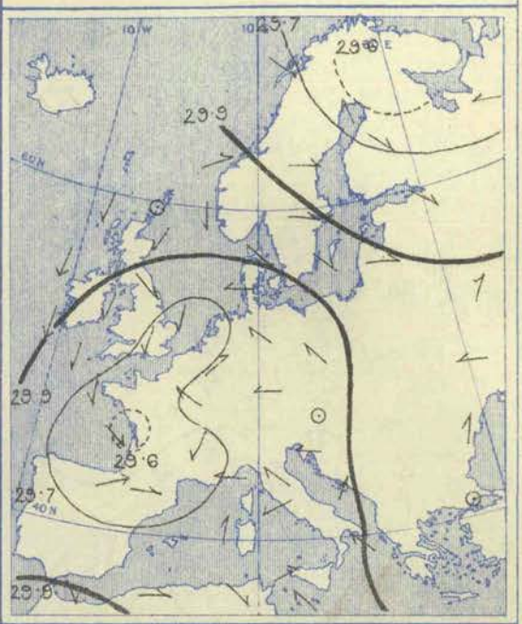
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the central and south-western parts of our Islands, as well as in most parts of southern Europe. Cloudy or overcast elsewhere, with fog over the south of Russia and the east and south of Germany, showers at many of our own northern stations, and steady rain in the Netherlands and the extreme south-east of England, as well as over the Gulf of Finland. Showers falling later in several parts of Great Britain, and heavy rain in France—as much as 1·4 ins. at Nice (where a thunderstorm occurred) and 1·0 in. at Belfort.

Temperature changed rather irregularly. Morning readings highest, 71° at Malta, 68° at Sfax, 67° at Tunis, and 66° at Cagliari; above 60° at most of the Mediterranean stations. Lowest, (1) 20° at Uleaborg, 25° at Hernösand, and 26° at Archangel; (2) 27° at Loughborough, and 32° at Oxford and Cambridge; (3) 36° at Munich, and 39° at Paris, Belfort, and Madrid. Daily maxima below 45° in the north of Scotland, and below 50° in all other parts of our Islands. Thermometer reaching 55° or more at several of the French stations, and touching 65° at Perpignan.

Wind light to fresh from the Northward over our Islands and the north-west of France; South-Westerly or Southerly over the southern parts of France; Westerly over the Spanish Peninsula. Variable over Italy, Austria, and eastern Germany; Easterly over western Germany and the Netherlands; South-Easterly on the eastern shores of the North Sea. Light from the North-Westward in Sweden, and from the North-Eastward in Finland. Subsequently veering to the North-Eastward in many parts of the United Kingdom, and to the Westward or North-Westward in the south-west of France; no important change occurring elsewhere.

Barometer highest, 30·0 ins. and upwards in a large area lying to the westward of our Islands, and also in another system over the south-eastern parts of Europe. Lowest, 29·5 ins. and less in a depression over the west of France; 29·6 ins. and less in two small systems lying respectively over Westphalia and off the south-east of England; 29·8 ins. and less in a shallow disturbance over the Baltic provinces. Depressions beginning to fill up later, and barometer rising in most parts of western Europe.

GENERAL NOTES.

At the commencement of last week a complex low pressure system, with several distinct minima, lay over our Islands and the North Sea, and occasioned very unsettled weather over the whole of north-western Europe, with North-Westerly gales on our own western coasts, and thunderstorms in the south and south-east of England. The depression, however, afterwards moved slowly north-eastwards and gradually dispersed, cold Northerly or North-Westerly winds setting in over our Islands, with frequent showers, and with repeated thunderstorms in many parts of England.

After the middle of the week the weather was influenced by two well-marked depressions, one of which advanced quickly north-eastwards across Spain and France, while the other was formed near the mouth of the English Channel. The first of these occasioned very heavy rain over France and the neighbouring countries, and on the 29th and 30th, when the depression moved northwards to Denmark and the south of Norway, a strong Northerly breeze sprang up in the north of Scotland, with showers of hail and sleet. The latter disturbance remained stationary for a time, and occasioned very strong Easterly winds in the Channel, with further thunderstorms in places. By the close of the week the northern depression had almost entirely dispersed, while the Channel disturbance was moving southwards. Fresh depressions were, however, forming over the Netherlands and the south-east of England, and changeable weather continued to prevail over north-western Europe generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	6·3	−10·7	10	− 14	SOUTHPORT	17·4	?	26	?
OSWALDKIRK (Yorkshire)	16·8	+ 1·8	25	+ 2	MANCHESTER (Oldham Road)	6·0*	?	9*	?
WORKSOP	21·2	+ 6·0	32	+ 10	COLWYN BAY		?		?
THURCASTON (Leicestershire)	26·0	+ 9·2	39	+ 14	TENBY				
MARGATE	35·0	+12·0	47	+ 18	NEWQUAY	32·3	+10·3	47	+ 15
WESTBOURNE (Sussex)	40·7*	+20·7	60*	+ 31	TORQUAY	38·0*	+18·0	55*	+ 26
BRIGHTON	45·2	+22·2	67	+ 33	ARLEY COTTAGE (County Cavan)	19·8	+ 1·7	30	+ 3
EASTBOURNE	37·9	+17·4	56	+ 27	GUERNSEY	24·1*	+ 3·6	35*	+ 5

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Diurnal each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending June 20th, 1896	Tenby	—	—	—	—	—	—	—	—	—	—	—	70·2	+15·4	61	+13
" " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	57·0	+ 3·7	50	+ 3
" " " 27th, "	Edgeworthstown	74	43	67·2	49·1	57·5	+ 0·2	109	0	3	0·91	+0·59	—	—	—	—
" " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	58·9	+ 4·7	51	+ 4
" " July 11th, "	York	—	—	—	—	—	—	—	—	—	—	—	41·7	+ 5·2	36	+ 3
" " " " "	Churchstoke	79	47	68·6	50·9	61·5	+ 3·8	137	0	2	0·65	+0·15	51·5	+12·0	45	+10
" " " 18th, "	Hereford	83	44	64·4	49·3	61·0	+ 0·8	133	0	0	—	−0·52	—	—	—	—
" " " 25th, "	Hereford	83	45	63·4	50·8	61·3	+ 0·8	135	0	—	—	—	—	—	—	—
" " " " "	Killarney	70	50	63·0	54·2	58·7	+ 0·4	117	0	6	0·98	?	—	—	—	—
" " " " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	48·3	− 0·2	44	0
" " Aug. 1st, "	York	—	—	—	—	—	—	—	—	—	—	—	33·4	− 1·4	30	− 3
" " " " "	Churchstoke	72	39	60·9	49·2	57·4	− 0·7	108	0	5	0·16	−0·46	40·0	+ 3·9	37	+ 3
" " " " "	Edgeworthstown	73	43	64·8	45·4	54·9	− 3·5	86	0	3	1·78	(1·2)				

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WEEKLY WEATHER REPORT.

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VOL. XIII. No. 45.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 7TH, 1896. [*Price 6d.* *Annual Subscription, post paid,* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 266.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	24	45·7	35·4	40·6	2 below	10	−12	26	+12	2046	+151	427	−252
	1. SCOTLAND, EAST	53	21	45·4	33·2	39·3	3 below	10	−14	33	+16	2374	+ 94	550	−166
	2. ENGLAND, N.E.	51	23	46·1	34·8	40·4	4 below	11	−17	28	+18	2641	+169	415	−165
	3. ENGLAND, EAST	52	22	47·0	33·4	40·2	4 below	14	−20	34	+22	2992	+133	487	−168
	4. MIDLAND COUNTIES	50	19	45·7	29·8	37·8	6 below	10	−21	46	+32	2953	+122	495	−176
	5. ENGLAND, SOUTH	51	21	47·7	34·9	41·3	5 below	16	−23	29	+22	3340	+229	297	−205
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	19	46·7	32·9	39·8	5 below	13	−16	35	+24	2588	+182	350	−152
	7. ENGLAND, N.W.	51	24	46·1	33·3	39·7	6 below	11	−21	33	+23	2891	+255	289	−194
	8. ENGLAND, S.W.	55	19	47·7	32·6	40·2	7 below	16	−27	37	+33	3217	+294	243	−132
	9. IRELAND, NORTH	55	22	46·8	34·2	40·5	4 below	13	−18	31	+22	2714	+170	260	−163
	10. IRELAND, SOUTH	53	23	47·9	31·6	39·8	7 below	17	−24	41	+34	3135	+258	199	−126
	—CHANNEL ISLANDS	53	24	50·6	42·7	46·7	4 below	33	−28	0	0	3770	+412	39	−109

Rainfall.

	DISTRICTS. (See p. 266.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	7	6 less	211	+ 3	48·1	+ 5·1
	1. SCOTLAND, EAST	3	3	4 less	177	+ 7	24·3	− 3·6
	2. ENGLAND, N.E.	5	9	2 more	161	+ 2	20·7	− 1·7
	3. ENGLAND, EAST	4	6	0 (average)	158	+ 2	21·4	− 0·9
	4. MIDLAND COUNTIES	2	4	3 less	153	+ 1	20·6	− 3·5
	5. ENGLAND, SOUTH	3	6	2 less	143	− 5	21·3	− 3·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	4	8 less	182	+ 5	37·7	− 2·9
	7. ENGLAND, N.W.	2	6	3 less	169	+ 4	29·9	+ 0·2
	8. ENGLAND, S.W.	1	2	9 less	150	−18	25·6	− 7·4
	9. IRELAND, NORTH	2	2	7 less	194	+ 2	33·9	+ 2·1
	10. IRELAND, SOUTH	2	1	8 less	166	− 8	29·7	− 3·2
	—CHANNEL ISLANDS	3	4	6 less	168	− 9	24·0	− 3·6

Bright Sunshine.

	DISTRICTS. (See p. 266.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	8	− 3	12	− 5	953	− 68	23	− 2
	1. SCOTLAND, EAST	21	+ 7	34	+11	1209	− 6	30	0
	2. ENGLAND, N.E.	21	+ 7	33	+11	1177	− 36	29	− 1
	3. ENGLAND, EAST	27	+10	42	+15	1413	− 36	35	− 1
	4. MIDLAND COUNTIES	26	+10	40	+16	1273	− 21	32	− 1
	5. ENGLAND, SOUTH	28	+11	44	+18	1508	− 10	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	17	+ 3	28	+ 6	1284	0	32	0
	7. ENGLAND, N.W.	16	+ 8	25	+13	1202	+ 13	32	0
	8. ENGLAND, S.W.	29	+11	44	+17	1640	+ 76	41	+ 2
	9. IRELAND, NORTH	19	+ 3	30	+ 4	1148	− 43	28	− 2
	10. IRELAND, SOUTH	26	+ 8	40	+12	1337	− 18	33	− 1
	—CHANNEL ISLANDS	23	+ 2	34	+ 4	1817	+ 12	46	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was mostly fine and bright, but showers were experienced in many places during the early days of the week—especially in the north-east—and considerable quantities of rain fell very generally at the close of the period. Thunder and lightning occurred at some of the extreme southern stations on Sunday.

Temperature was again below the mean, the deficit ranging from 2° in Scotland N., and 3° in Scotland E. to 5° or 6° in many other districts, and to 7° in England S.W. and Ireland S. The highest of the maxima were recorded on rather variable dates, and ranged from 55° in England S.W. and Ireland N., to 50° in the Midland counties. The absolute minima, which occurred generally about the middle of the week, were again very low; they ranged from 19° in the Midland counties, Scotland W., and England S.W., to 24° in Scotland N. and England N.W., and to 34° in the Channel Islands. The lowest reading reported from instruments exposed on the grass was 14° at Worksop on the 6th and 7th.

Rainfall somewhat exceeded the mean in England N.E. and just equalled it in England E.; elsewhere the fall was less than the normal, and over Ireland and the south-west of England the deficiency was very large.

Bright Sunshine exceeded the mean in all districts excepting Scotland N. The percentage of the possible duration ranged from 44 in England S. and S.W., and 42 in England E., to 25 in England N.W., and to 12 in Scotland N.

Barometer and Wind.—Soon after the commencement of the period an anticyclone spread slowly over the Kingdom from the north-westward—the wind at first being Northerly in all districts, and afterwards Westerly or North-Westerly in the north, and Easterly or North-Easterly in the south. By Friday, however, the anticyclone showed some indications of giving way, and on Saturday morning a small depression had appeared over the south-east of Scotland. This system subsequently moved southwards and south-eastwards, at the same time growing much deeper, and caused during the night a gale from the North-Eastward on our south-east coasts, and also in the Scilly Islands.

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II.—DATA from which the SUMMARY on page 265 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	33	45·3	36·7	41·0	− 2·2	9	21	6	0·39	−0·63	*	*	*	*
	Stornoway	50	34	46·0	36·9	41·5	− 1·3	11	21	2	1·28	+0·11	6·2	− 7·4	10	−13
	Wick	49	31	45·1	35·7	40·4	− 2·2	9	24	5	0·65	−0·12	*	*	*	*
	Lairg Ꞩ	51	30	45·3	32·9	39·1	− 2·7	9	34	4	0·45	−0·40	*	*	*	*
	Glencarron Ꞩ	48	28	45·3	35·3	40·3	− 2·2	9	23	3	0·96	−1·22	*	*	*	*
	Fort Augustus Ꞩ	50	24	47·4	34·8	41·1	− 2·6	15	29	2	0·34	−0·61	4·2	− 2·8	7	− 4
	Fort William Ꞩ	51	27	45·7	35·4	40·6	− 3·1	10	26	1	0·68	−1·08	12·5	+ 1·7	20	+ 3
1. SCOTLAND, E.	Nairn	50	32	45·7	35·1	40·4	− 1·6	10	27	3	0·62	+0·13	*	*	*	*
	Aberdeen	47	27	44·0	33·6	38·8	− 4·2	6	31	4	0·25	−0·43	24·1	+ 7·0	40	+12
	Braemar Ꞩ	45	21	41·8	30·2	36·0	− 3·7	0	42	2	0·21	−0·72	28·0†	+19·5†	46†	+32†
	Ochtertyre Ꞩ	53	24	48·6	32·3	40·5	− 2·1	18	39	1	0·06	−0·94	*	*	*	*
	Leith Ꞩ	48	28	46·7	35·4	41·1	− 2·9	13	27	2	0·11	−0·32	*	*	*	*
	Marchmont Ꞩ	48	27	45·4	32·6	39·0	− 2·8	10	35	4	0·39	−0·36	22·0	+ 7·0	36	+11
2. ENGLAND, N.E.	Alnwick Castle	50	28	45·1	36·1	40·6	− 2·9	9	23	7	1·54	+0·84	*	*	*	*
	Durham	47	23	45·4	31·2	38·3	− 4·4	10	40	4	0·76	+0·08	18·5	+ 3·5	30	+ 7
	Shields	48	30	45·9	34·7	40·3	− 4·3	11	28	5	0·37	−0·20	*	*	*	*
	Scarborough Ꞩ	48	29	45·8	36·9	41·4	− 3·5	11	21	4	0·74	+0·03	*	*	*	*
	York	51	23	46·7	30·3	38·5	− 5·2	13	44	4	0·86	+0·29	17·2	+ 4·7	28	+ 7
	Spurn Head	51	37	47·4	39·3	43·4	− 2·1	21	8	4	0·92	+0·38	*	*	*	*
3. ENGLAND, E.	Hillington Ꞩ	52	22	47·4	32·4	39·9	− 4·1	15	37	4	0·58	−0·03	24·4	+ 8·9	38	+12
	Yarmouth	49	28	47·1	38·9	43·0	− 2·2	20	9	5	0·55	−0·15	*	*	*	*
	Geldeston	51	24	47·8	32·9	40·4	− 4·6	16	36	5	0·76	+0·13	28·8	+11·0	44	+19
	Cambridge	52	23	47·3	30·1	38·7	− 5·7	15	45	3	0·55	+0·04	27·1	+ 9·4	42	+15
	Rothamsted	47	24	45·4	32·7	39·1	− 4·3	10	35	4	0·58	−0·11	28·7	+10·7	44	+16
4. MIDLAND COUNTIES	Harrogate Ꞩ															
	Bawtry (Hesley Hall)	48	20	44·0	28·9	36·5	− 6·7	6	48	2	0·65	+0·11	*	*	*	*
	Loughborough	50	23	46·3	27·9	37·1	− 7·1	12	52	3	0·59	+0·02	*	*	*	*
	Stamford (Duddington)	49	22	45·6	29·9	37·8	− 6·8	10	45	3	0·66	+0·08	*	*	*	*
	Cheadle Ꞩ	48	30	45·6	33·0	39·3	− 3·7	10	34	2	0·51	−0·31	*	*	*	*
	Shirley (near Solihull)	48	24	45·8	29·7	37·8	− 6·0	11	46	1	0·44	?	*	*	*	*
	Churchstoke Ꞩ	47	19	44·5	26·7	35·6	− 8·1	7	55	3	0·32	−0·31	24·8	+ 9·4	39	+16
	Hereford Ꞩ	48	22	45·4	28·3	36·9	− 7·8	10	51	1	0·01	−0·56	*	*	*	*
	Cirencester	48	27	46·4	32·3	39·4	− 3·8	12	37	1	0·10	−0·63	29·0	+11·4	45	+18
	Oxford	50	27	47·9	31·1	39·5	− 5·2	17	42	1	0·35	−0·20	28·9	+11·6	44	+19
5. ENGLAND, S.	London	48	26	47·1	34·1	40·6	− 5·2	14	31	3	0·61	0·00	12·1†	− 0·9†	19†	0†
	North Foreland	51	31	48·4	39·6	44·0	− 2·1	24	7	4	1·02	?	*	*	*	*
	Dungeness	50	30	48·6	36·3	42·5	− 4·5	27	16	4	0·77	0·00	*	*	*	*
	Hastings (St. Leonards)	49	32	47·7	36·9	42·3	− 4·5	24	14	5	0·83	−0·03	34·1	+14·6	52	+21
	Southampton	50	27	48·5	33·0	40·8	− 5·8	18	36	1	0·15	−0·63	29·7	+11·6	46	+18
	Hurst Castle	49	29	47·6	34·6	41·1	− 6·3	16	30	3	0·30	−0·48	*	*	*	*
	Stowell Ꞩ	48	21	45·7	29·7	37·7	− 8·3	10	46	1	0·18	−0·61	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	29	47·6	35·0	41·3	− 3·5	16	28	1	0·45	−1·38	*	*	*	*
	Glasgow	48	27	45·1	35·1	40·1	− 3·7	9	26	1	0·27	−0·62	11·6	+ 1·4	19	+ 3
	Ardrossan	51	29	47·3	35·7	41·5	− 3·7	15	26	1	0·23	−0·67	*	*	*	*
	Glenlee Ꞩ	49	19	45·6	26·6	36·1	− 6·7	10	56	2	0·22	−0·68	*	*	*	*
	Douglas (Isle of Man)	51	26	47·9	32·0	40·0	− 5·2	17	39	2	0·56	−0·54	22·5	+ 5·5	36	+ 9
7. ENGLAND, N.W.	Stonyhurst	47	24	42·9	31·7	37·3	− 6·5	3	37	3	0·80	−0·35	24·0	+11·2	38	+18
	Blackpool Ꞩ	51	24	47·3	29·4	38·4	− 6·5	15	48	2	0·88	+0·03	17·8	+ 4·7	28	+ 8
	Manchester (Prestwich)	48	25	44·6	30·5	37·6	− 6·4	7	42	3	0·60	−0·25	10·2	?	16	?
	Liverpool Obsy. (Bidston)	48	28	46·0	32·7	39·4	− 6·0	11	36	2	0·55	−0·15	*	*	*	*
	Llandudno Ꞩ	49	31	47·7	37·9	42·8	− 4·2	23	11	3	0·46	−0·42	*	*	*	*
	Holyhead	50	32	48·0	37·4	42·7	− 4·4	24	13	1	0·41	−0·58	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	19	48·1	24·0	36·1	− 9·3	17	68	2	0·30	−0·96	*	*	*	*
	Pembroke	51	34	48·0	37·0	42·5	− 5·9	25	14	1	0·11	−0·84	33·1	+16·1	51	+25
	Clifton	49	27	45·5	30·7	38·1	− 5·3	10	42	1	0·18	−0·68	*	*	*	*
	Arlington (N. Devon)	50	27	46·6	32·1	39·4	− 6·5	13	38	2	0·59	−0·92	*	*	*	*
	Cullompton Ꞩ	50	21	47·2	28·7	38·0	− 8·8	15	51	2	0·15	−0·75	27·8	+11·8	43	+20
	Falmouth	52	34	48·0	36·5	42·3	− 5·9	25	15	1	0·18	−1·11	28·0	+ 7·4	42	+11
	Plymouth	51	30	48·4	35·4	41·9	− 6·1	18	28	1	0·05	−0·78	25·6	+ 7·1	39	+14
	Prawle Point	55	35	49·7	36·6	43·2	− 4·0	31	15	1	0·12	−0·71	*	*	*	*
9. IRELAND, N.	Malin Head	50	26	46·1	39·9	43·0	− 2·9	16	6	4	0·14	?	*	*	*	*
	Londonderry	54	30	47·0	36·6	41·8	− 2·3	14	21	2	0·22	−0·78	*	*	*	*
	Edenfel (Omagh)	49	23	45·7	30·7	38·2	− 4·8	10	42	1	0·10	−0·75	*	*	*	*
	Belmullet	53	36	48·7	39·7	44·2	− 3·3	25	6	4	0·53	−0·80	*	*	*	*
	Markree Castle	52	22	46·6	31·6	39·1	− 4·9	13	40	1	0·14	−0·88	10·9	− 5·7	17	− 9
	Armagh	49	26	45·7	31·5	38·6	− 5·1	10	39	2	0·14	−0·58	24·4	+ 9·4	39	+14
	Donaghadee	50	28	47·9	34·7	41·3	− 3·7	17	30	2	0·15	−0·67	*	*	*	*
	Edgeworthstown	55	21	46·3	29·2	37·8	− 5·9	12	48	2	0·25	−0·55	*	*	*	*
10. IRELAND, S.	Dublin	51	26	45·0	33·1	39·1	− 7·1	8	34	2	0·29	−0·41	20·3	+ 1·3	32	+ 2
	Parsonstown	51	23	47·4	27·3	37·4	− 7·4	15	56	2	0·18	−0·42	20·4	+ 4·0	32	+ 5
	Kilkenny	52	23	47·7	28·6	38·2	− 7·7	16	51	2	0·09	−0·69	*	*	*	*
	Roche's Point	53	34	50·1	36·6	43·4	− 4·6	32	15	0	−	−1·08	*	*	*	*
	Valencia	52	27	50·0	33·4	41·7	− 7·0	22	36	2	0·17	−1·23	36·2	+17·7	56	+28
	Killarney									2	0·08	?	*	*	*	*
	Foynes	51	26	46·9	30·5	38·7	− 6·6	14	44	3	0·19	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	41	50·3	42·4	46·4	− 4·3	31	0	2	0·23	−0·59	23·6	?	36	?
	Jersey	53	34	50·9	42·9	46·9	− 2·9	34	0	3	0·50	−0·60	22·4	+ 1·1	33	+ 2

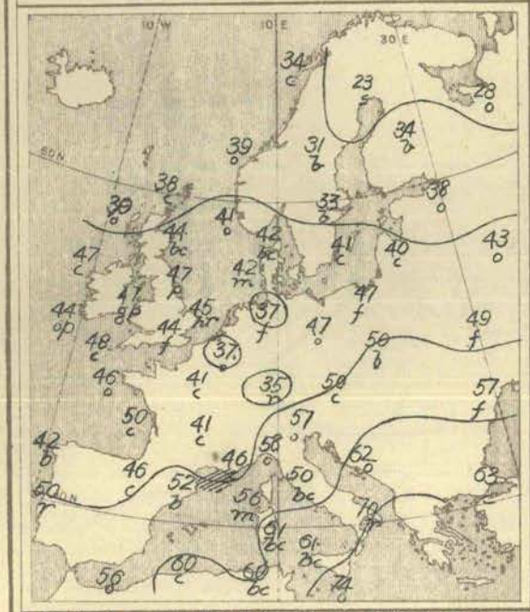
Stations marked Ꞩ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

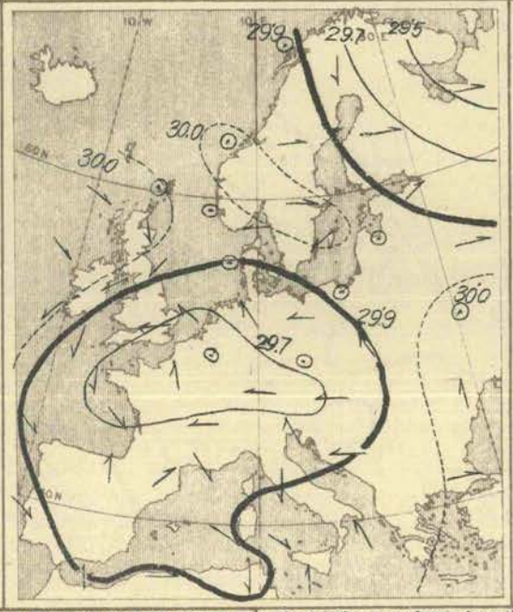
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 1st November.

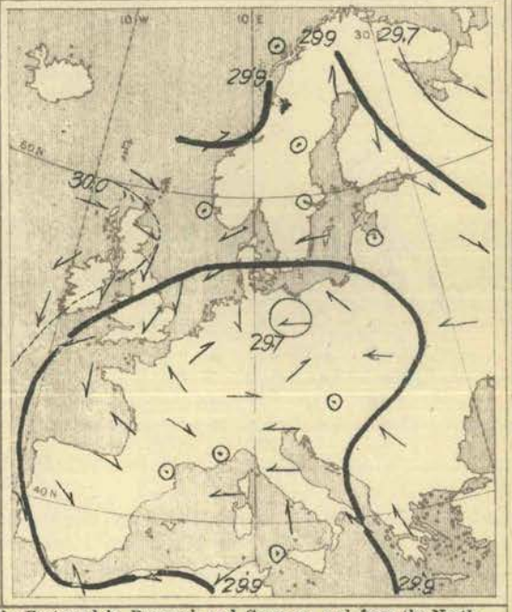
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine in Ireland and Scotland, but cloudy over England, with fog over our south-eastern counties and showers at some of the northern and eastern stations. Fine in Sweden, but dull in most of the other Continental countries, with rain in several parts of Spain, France, Germany, and Italy. Rain falling later in many parts of Great Britain and the Continent—heavily in places. Thunderstorms occurring in evening at Jersey and Biarritz, and lightning seen at Prawle Point and Hurst Castle.

Temperature risen in our Islands, and also in Denmark, north Germany, and Italy; changed irregularly elsewhere. Morning readings highest, 74° at Malta, 70° at Brindisi, 68° at Sfax, and 63° at Constantinople; above 60° at several of the Mediterranean and Adriatic stations. Lowest, (1) 23° at Ulcaborg, 28° at Haparanda and Archangel, and 30° at Karlstad; (2) 36° at Nairn, and 37° at Parsonstown. Rising during day to 50° and upwards at several of the English and Irish stations, and to 55° at Prawle Point. Exceeding 60° in most parts of southern Europe, and reaching 73° at Brindisi and Palermo. Frost occurring over central Ireland at night.

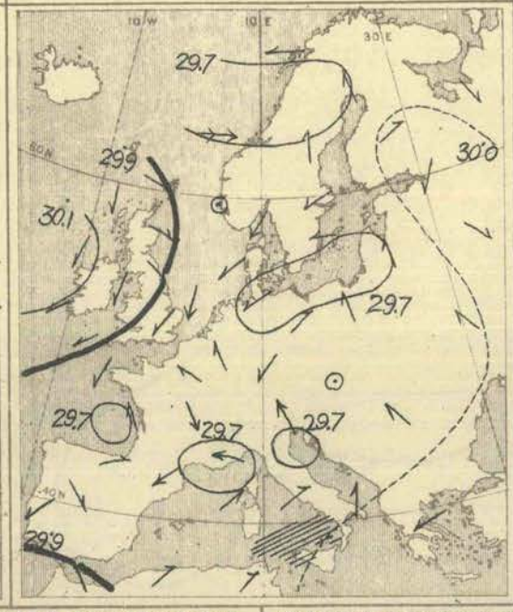
Wind light to moderate from the Eastward in Denmark and Germany, and from the North-Eastward or Northward in our Islands; moderate to strong from the North-Westward over the Spanish Peninsula and the west and south of France. Calm on the Norwegian coasts; light from the Westward over Sweden and northern Russia. Variable in the south of Russia and also in Italy. Subsequently backing to the Westward in the north of Scotland; becoming variable over the southern parts of France.

Barometer highest, 30·0 ins. and upwards:—(1) Over Scotland and the north and west of Ireland; (2) over the southern parts of Scandinavia; (3) over Asia Minor, the Black Sea, and the south of Russia. Lowest, 29·5 ins. and less in a depression over the White Sea; 29·6 ins. and less in a small disturbance over the north-west of France. Former depression subsequently moving away to the eastward; latter system dispersing; barometer rising over all but the southern parts of Europe.

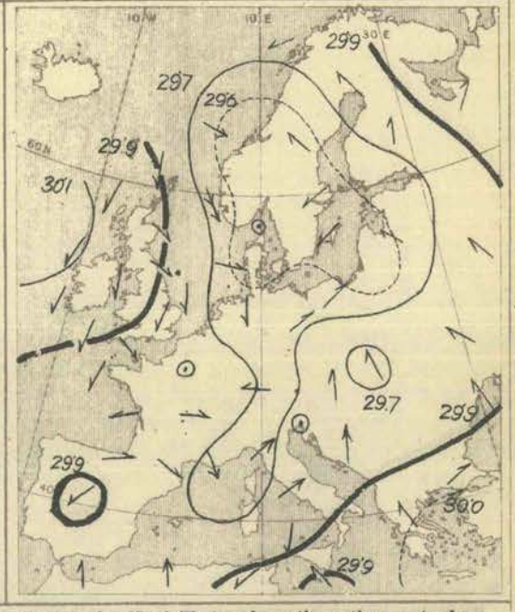
Monday, 2nd November.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair over the United Kingdom as a whole, but dull on our extreme north and north-west coasts, and rainy in the south-east of England, as well as in Holland, Denmark, and north Germany. Cloudy or dull in most other parts of the Continent, with rain or snow at some of the Scandinavian stations, as well as at Toulon and Barcelona. Fog reported in many parts of central Europe. Rain falling during day in most parts of Europe—heavily in Italy and the extreme south of France; thunderstorm occurring at Biarritz.

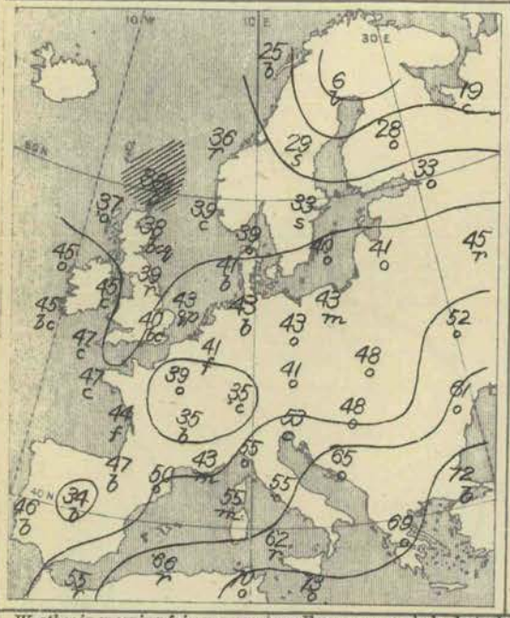
Temperature falling in the more central countries, but changed rather irregularly elsewhere. Morning readings highest, 71° at Brindisi, 69° at Athens, 65° at Trieste, and 64° at Palermo. Lowest, (1) 23° at Haparanda, 26° at Uleaborg, and 27° at Kuopio; (2) 31° at Parsonstown; (3) 31° at Belfort and Munich. Rising during day to between 46° and 50° over our Islands generally; exceeding 50° in the west and south of France, exceeding 60° in Italy, and reaching 75° at Malta.

Wind light to moderate from the Northward or North-Westward over the northern parts of our Islands, and from the North-Eastward in the south. Rather variable over the northern parts of Russia and Scandinavia; North-Easterly in Denmark and the south of Sweden; South-Westerly at most of the German stations. Calm in Austria, Easterly over northern Italy and the south and east of France; variable over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·1 ins. and upwards in an anticyclone off the west of Ireland; 30·0 ins. and upwards in another system over Russia. Lowest, 29·7 ins. and less in five distinct areas—one lying over the north of Scandinavia, another over north Germany and the Baltic; a third over the Bay of Biscay, a fourth over the extreme south of France, and the fifth over the northern part of the Adriatic. Depression over the north of Scandinavia subsequently moving southwards, and becoming gradually deeper.

Tuesday, 3rd November.

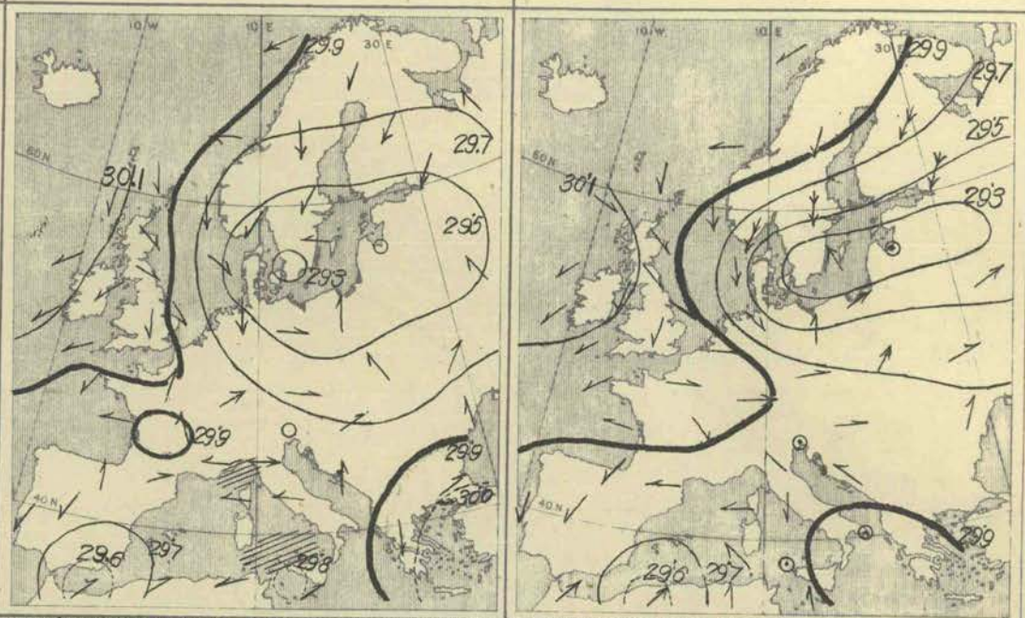
Temperature and Weather. 8 a.m.



Weather in morning fair over western Europe as a whole, but showery along the east coasts of England, and foggy at several of the French and Belgian stations. Dull in most of the northern, eastern and central countries, and also in Greece and Italy; rain falling at Christiansund and Moscow, and snow in many parts of Sweden and Finland. Weather improving later on our east coasts and also in the west of Norway; no decided change occurring elsewhere.

Temperature fallen over the western and northern countries generally, but risen in the east and south. Morning readings highest, 73° at Malta, 72° at Constantinople, and 70° at Sfax; above 60° at many of the Adriatic and Mediterranean stations. Lowest, (1) 6° at Haparanda, 19° at Uleaborg and Archangel, and 25° at Bodö; (2) 32° at Belfort and Limoges, 34° at Madrid; (3) 35° at Nairn, Ardrossan, and Loughborough. Rising during day to between 45° and 50° in most parts of our Islands; exceeding 50° in the west and south of France, exceeding 60° in Italy, and reaching 70° at Brindisi. Sharp frost occurring in many parts of our Islands at night.

Barometer and Wind. 8 a.m. and 6 p.m.

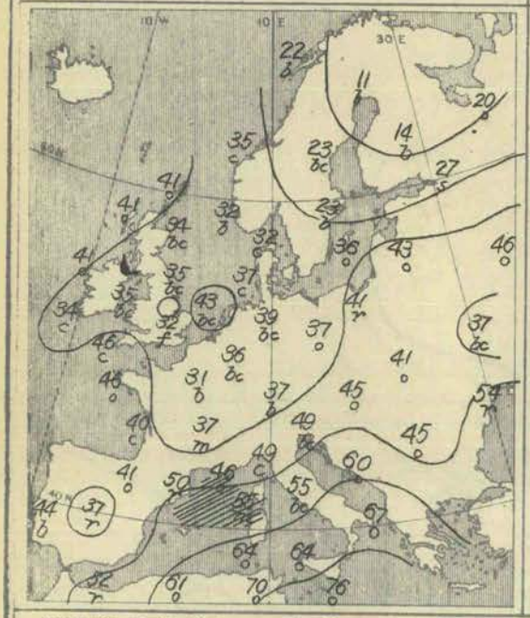


Wind moderate to strong from the North-Eastward or Northward over Finland and Scandinavia; moderate from the North-Westward on the east coasts of Great Britain, and from the Westward in Germany. Light from the South-Westward or Southward in the south of Russia. Light from the North-Eastward over the western parts of our Islands and France, and also over the Spanish Peninsula. Variable in Italy and the south of France. Subsequently increasing to a gale from the Northward or North-Eastward in Finland, the south of Sweden, and the north of Denmark. No important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying to the westward of our Islands; 30·0 ins. and upwards in another system over Greece and Asia Minor. Lowest, 29·4 ins. and less in a well-marked depression over the Baltic and south of Sweden; 29·6 ins. and less in another disturbance over Morocco; 29·8 ins. and less in a very shallow system over the Gulf of Genoa. Anticyclone off our western coasts, subsequently spreading eastwards, and barometer rising in all parts of western Europe. Depressions over the Baltic and Morocco both moving slowly eastwards.

Wednesday, 4th November.

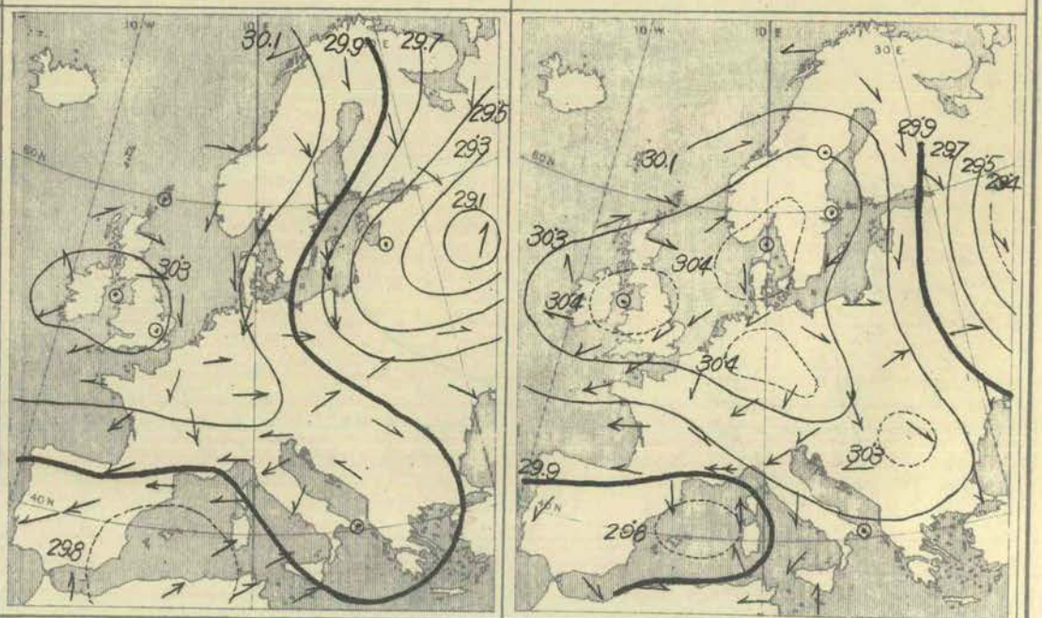
Temperature and Weather. 8 a.m.



Weather in morning fine over western Europe as a whole, and also in Scandinavia, but dull in the extreme north and north-west of our Islands. Dull and unsettled over the eastern and southern parts of the Continent, with rain at Neufahrwasser and Cracow, as well as at Madrid and Barcelona; snow reported at St. Petersburg. Slight showers falling during day on the south-east coasts of England, and larger amounts of rain in many parts of southern Europe—as much as 1·4 ins. at Pesaro and Leghorn.

Temperature fallen in most countries. Morning readings highest, 76° at Malta, 70° at La Calle, and 67° at Brindisi; above 60° at several of the Mediterranean stations. Lowest, 11° at Haparanda and Uleaborg, 14° at Kuopio, and 20° at Archangel and Karlstad; below the freezing point over northern Europe generally, and also over all the more central parts of the United Kingdom. Rising during day to between 45° and 50° in most parts of our Islands; exceeding 50° in the Channel Islands and most parts of France and southern Europe, and exceeding 70° over southern Italy.

Barometer and Wind. 8 a.m. and 6 p.m.



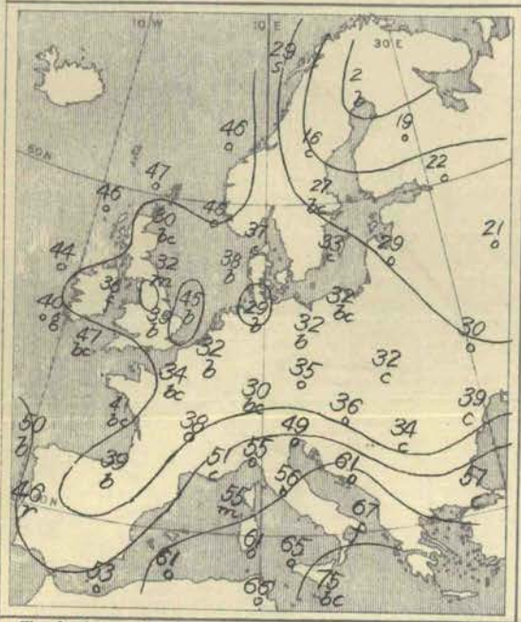
Wind light from the Southward in the north of Ireland; calm or light from the Westward or North-Westward over the northern and central parts of Great Britain; light to fresh from the North-Eastward or Eastward over the south of our Islands, and also in France, Spain, and northern Italy. Northerly over Sweden, Denmark, and northern Russia, with a gale at Wisby; Westerly over Germany, Austria, and the south of Russia. No important change occurring over western Europe during day.

Barometer highest, 30·3 ins. and upwards over Ireland and England; 30·1 ins. and upwards in an anticyclone, covering nearly the whole of north-western Europe. Lowest 29·1 ins. and less in a rather deep depression over central Russia; 29·8 ins. and less in a large shallow system over Algeria and the western parts of the Mediterranean. Anticyclone increasing later both in size and intensity, and barometer rising over western Europe generally. Depression over central Russia moving eastwards.

Thursday, 5th November.

Temperature and Weather.

8 a.m.

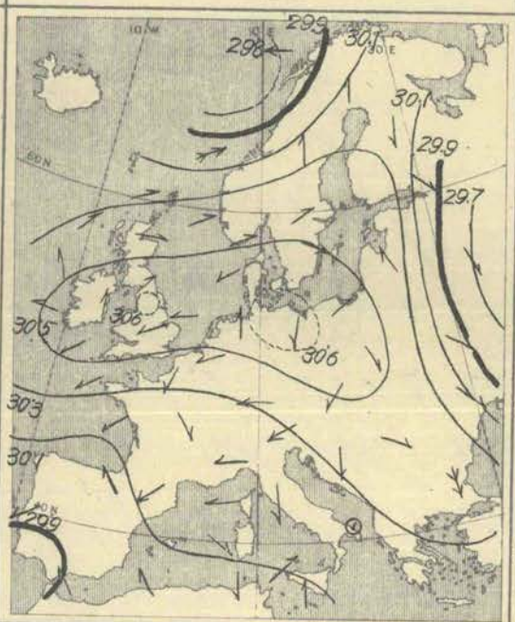


Weather in morning fine over western and central Europe generally, but foggy or misty at several of the English and Irish stations, and dull on our extreme north and north-west coasts, as well as in the west of Norway, with snow at Bodö. Dull in most of the eastern and southern countries, with rain at Lisbon and snow at Kharkov. Rain falling later over the northern parts of Scandinavia, and also in the extreme south of France—heavily in places. Thunderstorm occurring at Algiers.

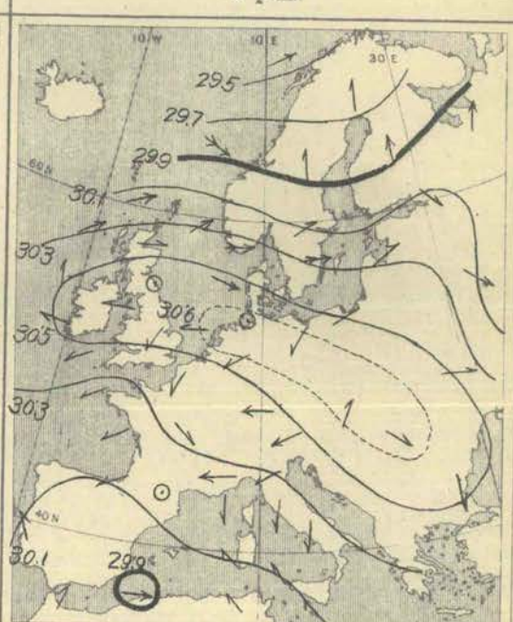
Temperature risen in most of the western and southern countries, but fallen elsewhere. Morning readings highest, 75° at Malta, 67° at Brindisi, 66° at Sfax, and 65° at Palermo. Lowest, 2° at Uleaborg, 4° at Haparanda, 16° at Hernösand, and 19° at Kuopio; below the freezing point over Russia and Sweden generally, and also over the central parts of England and Ireland. Rising later to between 45° and 50° in most parts of our Islands; exceeding 60° over southern Europe as a whole, and reaching 81° at Cagliari and Palermo. Sharp frost occurring over the United Kingdom at night.

Barometer and Wind.

8 a.m.



6 p.m.



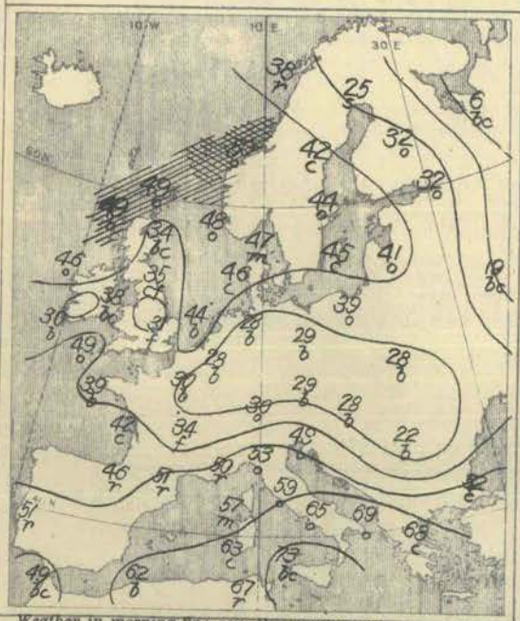
Wind South-Westerly or Westerly over the northern parts of our Islands, and also in Scandinavia; with a gale at Christiansund. Light from the Northward or North-Westward over Russia and eastern Germany. Light to moderate from the Eastward and North-Eastward in most other parts of Europe, but variable in the south of Italy. No important change occurring over Western Europe during day, but Westerly gales setting in over the north of Denmark and the south of Sweden.

Barometer highest, 30·63 ins. at Berlin; 30·61 ins. at York; 30·5 ins. and upwards in a long band stretching from Germany and the Baltic across the Netherlands, and nearly the whole of England and Ireland. Lowest, 29·7 ins. and less in a depression over central Russia; 29·8 ins. and less in another disturbance off the north-west of Norway; 30·0 ins. and less in a shallow area over Spain and Morocco. No important change occurring over western Europe later, but Norwegian depression becoming deeper.

Friday, 6th November.

Temperature and Weather.

8 a.m.

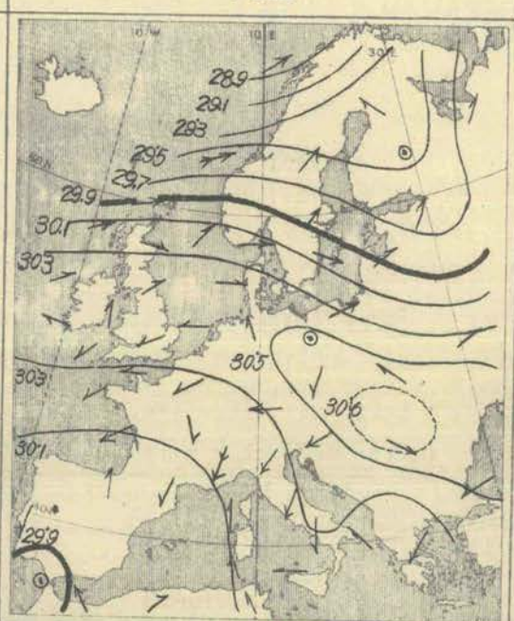


Weather in morning fine over the greater part of our Islands, France, the Netherlands, and Germany, but with fog in many places. Dull in the extreme north and north-west of our Islands, and also over the northern parts of the Continent generally, with rain at Bodö and Helsingfors, and snow at Haparanda and Uleaborg. Dull and unsettled in most of the southern countries, with rain over northern Italy and the south of France. Rain falling later over the north of our Islands generally, and in the west of Norway. Considerable amounts reported in the south of France and some parts of Spain and northern Italy.

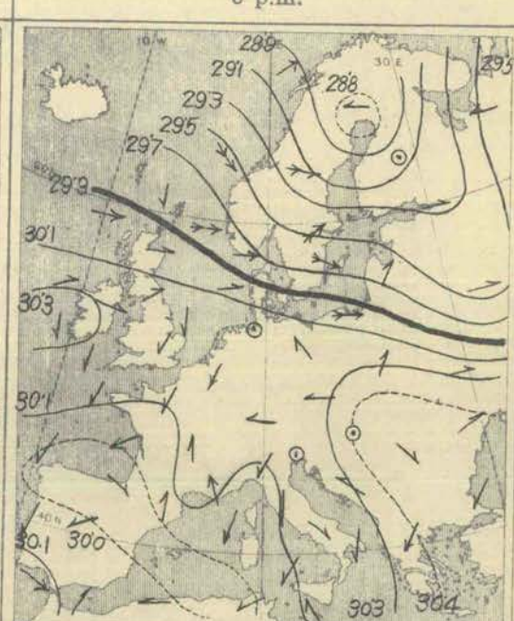
Temperature fallen over Ireland, England, France, Germany, and the Netherlands; risen elsewhere. Morning readings highest, 73° at Palermo, 69° at Brindisi, 67° at La Calle, and 63° at Cagliari and Athens. Lowest, (1) 6° at Archangel, 19° at Moscow, and 22° at Kharkov; (2) 24° at Loughborough and Parsonstown, and 25° at York; below the freezing point over central Europe generally. Rising during day to between 45° and 50° over the greater part of our Islands; exceeding 60° over southern Europe generally, and exceeding 70° in the south of Italy. Sharp frost occurring over England at night.

Barometer and Wind.

8 a.m.



6 p.m.

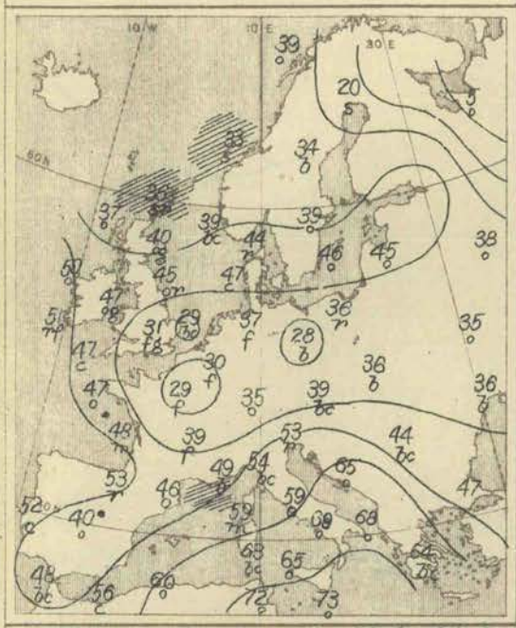


Wind Westerly or South-Westerly over the northern parts of our Islands and the Continent generally; strong in force in Scandinavia and the north of Scotland, with a gale at Christiansund. Light to fresh from the Eastward or North-Eastward over the south of our Islands, the Netherlands, and the greater part of France, Spain, and Italy, but strong to a gale in the extreme south of France. Subsequently veering to the North-Westward in the west of Norway; Westerly gale springing up over the Baltic and the Gulf of Finland.

Barometer highest, 30·6 ins. and upwards over east Austria; 30·4 ins. and upwards in a long band stretching from south-eastern Europe across Germany to England and Ireland. Lowest 28·9 ins. and less in a deep depression off the north-west of Norway; 29·9 ins. and less in a shallow system over the extreme south of Spain. Anticyclone giving way later, and barometer falling over western Europe generally; depression off Norwegian coasts moving eastwards.

Saturday, 7th November.

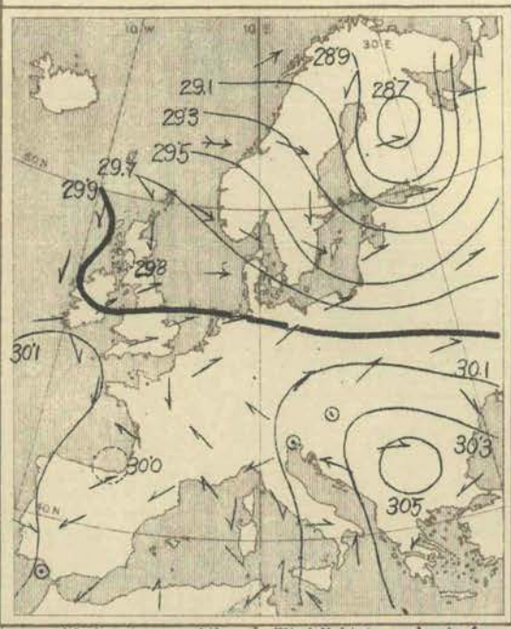
Temperature and Weather. 8 a.m.



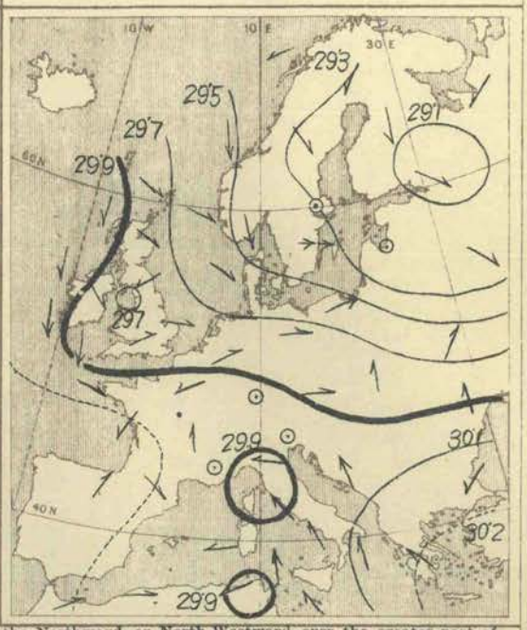
Weather cloudy over the greater part of our Islands and the Continent, with fog at many of the English, French, and German stations. Rain falling in Ireland and the north of England, as well as in several parts of Austria, northern Italy, the south-west of France, and the north-east of Spain; snow reported in the Shetlands, and also at Christiansund and Uleaborg. Rain falling later over nearly the whole of Europe—heavily in many parts of England, France, and the Netherlands (as much as 2·2 ins. at Gap). Thunderstorms occurring at Biarritz and Sanguinaire, and lightning seen at Nice.

Temperature risen over Ireland, England, France, and Russia; fallen in most other countries. Morning readings highest, 73° at Malta, 72° at Sfax, and 68° at Brindisi; above 60° at many of the Mediterranean stations. Lowest, 5° at Archangel, 20° at Uleaborg, and 21° at Haparanda; below the freezing point in many parts of France and Germany, and also in the south-east of England. Daily maxima below 45° at many of our own northern and eastern stations, but thermometer rising to between 50° and 53° in the west and south; exceeding 60° over southern Europe generally, and exceeding 70° over southern Italy

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Wind light to moderate from the Northward or North-Westward over the greater part of Ireland and Scotland; light from the Westward or South-Westward over England, the Netherlands, and Germany. Westerly over Scandinavia, Denmark, and Russia, with a gale in the Gulf of Finland, as well as at Memel and Christiansund. Variable over France and southern Europe as a whole. Subsequently veering to the North-Westward over the Norwegian coasts, and later on over England also, with a decided increase in force over the latter country. Gale over northern Europe subsiding gradually.

Barometer highest, 30·5 ins. and upwards over eastern Austria; 30·1 ins. and upwards in an anticyclone lying over south-eastern Europe generally, and also in another system stretching from the Atlantic over Portugal and our own extreme south-west coasts. Lowest, 28·7 ins. and less in a well-marked depression over Finland, 29·8 ins. and less in a small secondary system over the south-west of Scotland. Depressions both moving south-eastwards later—the one to central Russia and the other across England; secondary system becoming much deeper in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this period the complex depressions hitherto noticed over the Netherlands and the south-east of England moved away to the southward and gradually dispersed, while an anticyclone began to spread over our Islands from the Atlantic. On the 2nd and 3rd, however, the further advance of the latter system was arrested by a large depression of increasing intensity, which moved southwards across Scandinavia and the Baltic, and which afterwards travelled away to central Russia. The progress of this disturbance was attended by Northerly to North-Easterly gales and snowstorms in many parts of northern Europe, and by freshening Northerly winds even on our own northern coasts.

As the disturbance passed away the western high pressure system spread quickly eastwards, and increased both in size and intensity, until it ultimately embraced nearly the whole of Europe. A decided improvement in the weather was therefore experienced in most countries, but over our Islands thick fogs were experienced at night, with sharp frosts in most of the northern and inland districts. Towards the end of the week, however, the anticyclone began to break up, while large depressions advanced eastwards across the northern parts of Scandinavia. Rough unsettled weather consequently set in again over northern Europe, with Westerly gales in many places, while on the night of the 7th, when a small secondary disturbance of increasing depth passed across England, a slight Northerly gale sprang up on our east and south-east coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	8·8	− 6·2	14	− 9	SOUTHPORT	13 6	+ 0·8	22	+ 2
OSWALDKIRK (Yorkshire)	25·5	+12·5	40	+ 19	MANCHESTER (Oldham Road)	3·8*	?	6*	?
WORKSOP	24·4	+11·0	38	+ 18	COLWYN BAY	26·0	?	41	?
THURCASTON (Leicestershire)	21·0	+ 6·0	33	+ 9	TENBY	*		*	
MARGATE	25·0	+ 7·7	38	+ 11	NEWQUAY	27·0	+ 7·0	41	+ 10
WESTBOURNE (Sussex)	30·3*	+13·7	47*	+ 22	TORQUAY	30·5*	+13·0	45*	+ 20
BRIGHTON	35·1	+15·1	54	+ 24	ARLEY COTTAGE (County Cavan)	20·8	+ 3·8	33	+ 6
EASTBOURNE	31·9	+14·4	49	+ 23	GUERNSEY	23·4*	+ 4·8	33*	+ 7

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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VOL. XIII. No. 46.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 14TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 272.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	26	47·7	39·3	43·5	2 above	22	+ 3	8	- 7	2068	+154	435	-259
	1. SCOTLAND, EAST	56	27	47·5	38·6	43·1	2 above	22	+ 2	10	- 9	2396	+ 96	560	-175
	2. ENGLAND, N.E.	55	29	46·7	38 2	42·5	1 below	19	- 6	11	- 1	2660	+163	426	-166
	3. ENGLAND, EAST	51	27	47·2	34·3	40·8	3 below	15	-14	30	+16	3007	+119	517	-152
	4. MIDLAND COUNTIES	53	26	46·3	34·3	40·3	2 below	12	-16	30	+14	2965	+106	525	-162
	5. ENGLAND, SOUTH	53	27	48·5	35·7	42·1	3 below	27	-10	18	+10	3367	+219	315	-195
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	21	48·3	39·7	44·0	1 above	24	- 1	6	- 6	2612	+181	356	-158
	7. ENGLAND, N.W.	56	26	47·3	37·7	42·5	2 below	22	- 7	12	+ 3	2913	+248	301	-191
	8. ENGLAND, S.W.	53	24	48·6	36·2	42·4	3 below	27	-13	16	+11	3244	+281	259	-121
	9. IRELAND, NORTH	52	23	48·2	38·3	43·3	0 (average)	25	- 2	10	- 1	2739	+177	270	-164
	10. IRELAND, SOUTH	55	22	49·6	38·3	44·0	2 below	30	- 7	10	+ 2	3165	+251	209	-124
	—CHANNEL ISLANDS	54	35	51·0	42·4	46·8	3 below	34	-23	0	- 1	3804	+389	39	-110

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 272.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	15	3 more	217	+ 4	49·6	+ 5·4	1	- 7	1	-13	954	- 75	23	- 2
	1. SCOTLAND, EAST	4	4	4 less	181	+ 6	24·7	- 3·9	4	- 8	8	-13	1213	- 11	29	- 1
	2. ENGLAND, N.E.	5	3	3 less	166	+ 2	21·0	- 2·0	9	- 3	15	- 5	1186	- 39	29	- 1
	3 ENGLAND, EAST	3	5	2 less	161	+ 1	21·9	- 1·0	13	- 2	22	- 2	1426	- 38	35	- 1
	4. MIDLAND COUNTIES	2	4	2 less	155	- 2	21·0	- 3·7	12	- 2	19	- 2	1285	- 22	32	0
	5. ENGLAND, SOUTH	3	5	2 less	146	- 7	21·8	- 3·4	15	0	23	- 0	1523	- 10	37	- 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	2 less	187	+ 5	38 8	- 3·4	10	- 2	16	- 4	1294	- 2	32	0
	7. ENGLAND, N.W.	2	4	5 less	171	+ 1	30·3	- 0·3	11	+ 4	19	+ 7	1213	+ 17	32	0
	8. ENGLAND, S.W.	2	6	5 less	152	-21	26·2	- 7·9	20	+ 4	31	+ 6	1660	+ 80	41	+ 2
	9. IRELAND, NORTH	3	6	4 less	197	0	34·5	+ 1·8	15	0	25	0	1163	- 43	28	- 1
	10. IRELAND, SOUTH	3	7	2 less	169	-10	30·4	- 3·4	21	+ 5	34	+ 7	1358	- 13	33	- 1
	—CHANNEL ISLANDS	3	7	3 less	171	-11	24·7	- 3·9	19	+ 3	29	+ 7	1836	+ 16	45	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was changeable. Rain fell frequently in the north and north-west; in the more southern and south-western districts the conditions were generally fair and dry until nearly the end of the week, when rain again extended to all parts of the country.

Temperature was a little above the mean in Scotland, and just equal to it in the north of Ireland, but over England and in Ireland S. it was again below the normal, the deficit ranging from 1° to 3°. The highest of the maxima, which were registered on the 11th or 12th, ranged from 56° in Scotland E. and England N.W. to 51° in England E. The lowest of the minima were recorded during the earlier days of the week, and ranged from 21° in Scotland W., 22° in Ireland S., 23° in Ireland N., and 24° in England S.W., to 29° in England N.E., and to 35° in the Channel Islands.

Rainfall somewhat exceeded the mean in Scotland N., but was less than the normal in all other parts of the Kingdom.

Bright Sunshine was deficient over the greater part of the Kingdom, but exceeded the mean value in England S.W. and N.W., Ireland S., and the Channel Islands. The percentage of the possible amount of duration ranged from 34 in Ireland S., and 31 in England S.W., to 15 in England N.E., 8 in Scotland E., and only 1 in Scotland N.

Barometer and Wind.—At the commencement of the week a depression was passing away over our extreme south-east coasts, and the barometer was rising decidedly, the wind being Northerly very generally and blowing strongly in the south and south-east. By the 9th an anticyclone had appeared over Ireland, and during the next few days this system moved slowly south-eastwards to France, the wind in the meantime gradually shifting from North-East and North to the Westward on all our coasts. Towards the end of the period depressions appeared in the west and north-west, causing the wind to increase from the Southward or South-Westward in the west and north, and to attain the force of a gale in some places, and the weather to become unsettled and rainy over the whole Kingdom.

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II.—DATA from which the SUMMARY on page 271 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	33	47·1	39·0	43·1	+ 0·6	20	8	6	1·75	+0·75	*	*	*	*
	Stornoway	52	32	48·6	40·9	44·8	+ 2·7	24	3	7	2·01	+0·89	0·4	−10·7	1	−19
	Wick	52	30	48·1	38·1	43·1	+ 1·3	24	11	7	0·58	−0·15	*	*	*	*
	Lairg Ⓢ	52	27	46·7	37·6	42·2	+ 2·0	20	12	5	0·59	−0·23	*	*	*	*
	Glencarron Ⓢ	51	28	46·7	38·5	42·6	+ 1·4	19	10	3	3·49	+1·25	*	*	*	*
	Fort Augustus Ⓢ	53	26	48·2	38·9	43·6	+ 1·4	24	9	5	0·24	−0·76	0·0	− 4·9	0	− 8
	Fort William Ⓢ	53	28	48·4	41·8	45·1	+ 3·1	23	1	7	1·84	+0·04	1·6	− 6·4	3	−11
1. SCOTLAND, E.	Nairn	55	31	49·4	39·6	44·5	+ 3·5	28	7	3	0·06	−0·44	*	*	*	*
	Aberdeen	56	32	48·6	39·4	44·0	+ 2·0	25	7	7	0·64	−0·06	6·9	− 7·9	12	−13
	Braemar Ⓢ	51	27	44.0	37·7	40·9	+ 2·5	6	17	4	0·54	−0·37	2·2†	− 4·8†	4†	− 9†
	Ochtertyre Ⓢ	54	27	48·3	39·4	43·9	+ 2·6	24	7	2	0·43	−0·58	*	*	*	*
	Leith	52	30	48·7	39·7	44·2	+ 1·1	25	6	4	0·11	−0·34	*	*	*	*
	Marchmont Ⓢ	49	26	45·7	35·9	40·8	0·0	10	24	6	0·41	−0·37	5·8	− 7·7	10	−14
2. ENGLAND, N.E.	Alnwick Castle	55	31	48·1	38·7	45·4	+ 0·9	24	9	?	?	?	*	*	*	*
	Durham	53	29	45·9	37·8	41·9	+ 0·1	11	18	7	0·19	−0·48	5·2	− 7·9	9	−13
	Shields	52	30	46·7	38·0	42·4	− 1·1	20	11	6	0·28	−0·29	*	*	*	*
	Scarborough Ⓜ	51	36	46·3	39·2	42·9	− 0·9	18	8	3	0·27	−0·43	*	*	*	*
	York	51	31	46·9	36·6	41·8	− 1·0	14	23	4	0·54	0·00	9·6	− 1·1	16	− 2
	Spurn Head	48	36	45·7	39·1	42·4	− 2·0	15	8	3	0·37	−0·17	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	50	30	46·9	34·8	40 9	− 1·9	14	29	1	0·36	−0·26	12·1	− 1·1	20	− 2
	Yarmouth	49	28	46·7	35·9	41·3	− 2·3	13	25	3	0·60	−0·08	*	*	*	*
	Geldeston	51	31	47·9	36·4	42·2	− 1·7	25	16	4	0·68	+0·06	12·4	− 3·2	20	− 4
	Cambridge	51	29	47·9	32·3	40·1	− 2·9	17	38	3	0·18	−0·32	14·4	− 1·1	23	− 2
	Rothamsted	51	27	43·5	32·3	39·4	− 3·0	13	37	3	0·43	−0·24	14·1	− 0·9	23	− 2
4. MIDLAND COUNTIES	Harrogate Ⓜ	50	30	45·6	37·1	41.4	− 0·1	10	20	3	0·58	?	9·0	?	15	?
	Bawtry (Hesley Hall)	51	34	46·6	36·4	41·5	− 0·9	13	23	3	0·32	−0·18	*	*	*	*
	Loughborough	53	31	47·7	34·9	41·3	− 2·3	16	29	3	0·38	−0·16	*	*	*	*
	Stamford (Duddington)	51	31	46·3	33·9	40·1	− 3·1	12	31	3	0·35	−0·26	*	*	*	*
	Cheadle Ⓜ	51	30	44·7	33·9	39·3	− 2·5	8	30	2	0·40	−0·35	*	*	*	*
	Shirley (near Solihull)	50	30	45·7	33·3	39·5	− 3·2	10	33	2	0·43	?	*	*	*	*
	Churchstoke Ⓜ	52	28	46·5	33·4	40·0	− 2·5	13	34	2	0·46	−0·36	11·7	− 1·1	19	− 1
	Hereford Ⓜ												*	*	*	*
	Cirencester	51	26	46·3	31·6	39·0	− 3·2	12	40	2	0·37	−0·45	14·9	+ 0·5	24	+ 1
	Oxford	50	30	47·1	34·3	40·7	− 3·0	14	31	2	0·27	−0·28	15·5	+ 0·7	25	+ 2
5. ENGLAND, S.	London	51	29	47·7	33·3	40·5	− 4·3	16	34	3	0·35	−0·23	7·4†	− 2·8†	12†	− 3†
	North Foreland	50	32	48·4	37·3	42·9	− 2·2	26	13	3	0·60	?	*	*	*	*
	Dungeness	51	29	48·7	37·1	42·9	− 3·0	27	14	3	0·66	−0·12	*	*	*	*
	Hastings (St. Leonards)	53	36	50 0	40·2	45·1	− 0·5	29	5	2	0·57	−0·23	14·4	− 2·6	23	− 5
	Southampton	51	28	49·4	34·3	41·9	− 3·4	21	32	2	0·56	−0·19	13·4	− 3·8	21	− 3
	Hurst Castle	51	30	48·4	35·9	42·2	− 4·1	27	17	2	0·33	−0·42	*	*	*	*
	Stowell Ⓜ	49	27	46·6	32·1	39·4	− 5·6	13	38	3	0·59	−0·24	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	53	30	50·2	41·3	45·8	+ 2·1	30	2	6	2·89	+0·92	*	*	*	*
	Glasgow	51	28	47·1	40·0	43·6	+ 1·1	20	6	5	0·35	−0·53	4·8	− 3·2	8	− 5
	Ardrossan	51	29	49·0	40·9	45·0	+ 0 9	26	3	4	0·44	−0·46	*	*	*	*
	Glenlee Ⓢ	50	21	46·9	36·4	41·7	0·0	14	23	5	1·04	−0·43	*	*	*	*
	Douglas (Isle of Man)	51	28	48·3	39·7	44·0	− 0·8	24	6	3	0·79	−0·31	14·4	− 0·8	24	− 2
7. ENGLAND, N.W.	Stonyhurst	49	31	44·8	36·7	40·8	− 2 0	8	21	2	0·42	−0·67	14·2	+ 3·2	24	+ 6
	Blackpool Ⓜ	53	26	48·2	34·7	41·5	− 2·3	17	30	2	0·35	−0·45	15·8	+ 4·8	26	+ 8
	Manchester (Prestwich)	51	29	47·1	34·9	41·0	− 2·0	14	28	2	0·39	−0·43	9·1	?	15	?
	Liverpool Obsy. (Bidston)	50	34	46·4	37·6	42·0	− 2·2	12	12	2	0·10	−0·57	*	*	*	*
	Llandudno Ⓜ	56	36	49·2	40·4	44·8	− 1·2	26	4	2	0·18	−0·65	*	*	*	*
	Holyhead	51	37	48·3	41·7	45·0	− 1·8	22	1	2	0·89	−0·18	*	*	*	*
8 ENGLAND, S.W.	Llandovery	53	27	48·3	31·0	39·7	− 4·3	18	43	3	0·49	−0·64	*	*	*	*
	Pembroke	52	37	50·0	43·7	46·9	− 0 6	34	0	2	0·65	−0·30	16·8	+ 1·8	27	+ 3
	Clifton	48	31	46·3	34·8	40·6	− 0·9	12	29	2	0·39	−0·41	*	*	*	*
	Arlington (N. Devon)	50	27	46·6	34·6	40·6	− 4·2	13	29	2	0·53	− 0 96	*	*	*	*
	Cullompton Ⓜ	52	24	48·6	29·8	39 2	− 6 6	18	47	2	0·48	−0·37	18 9	+ 5·3	30	+10
	Falmouth	52	36	49·7	40·5	45·1	− 2·7	28	4	2	0·82	−0·55	22·0	+ 4·2	35	+ 7
	Plymouth	52	30	50·1	36·0	43 1	− 3·9	33	17	2	0·57	−0·28	19·5	+ 4·2	31	+ 8
	Prawle Point	50	34	49·0	39·0	44·0	− 2·8	27	8	2	0·54	−0·24	*	*	*	*
9. IRELAND, N.	Malin Head	50	29	48·0	42·3	45·2	+ 0·2	22	0	3	0·26	?	*	*	*	*
	Londonderry	52	33	48·0	39·9	44·0	+ 0·8	23	6	4	0·61	−0·39	*	*	*	*
	Edenfel (Omagh)	50	28	46·7	35·7	41·2	− 0·8	13	25	3	0 54	−0·28	*	*	*	*
	Belmullet	51	30	49·3	39·4	44·4	− 1·7	28	7	3	0·94	−0·43	*	*	*	*
	Markree Castle	52	23	49·0	35·4	42·2	− 0·9	29	18	3	0·73	−0·27	13·6	− 1·2	23	− 1
	Armagh	52	28	47·7	37·0	42.4	− 0·3	24	14	3	0·35	−0·35	14·6	+ 0·6	24	0
	Donaghadee	52	35	49·0	38·7	43·9	− 0·3	27	9	4	0·51	−0·26	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	53	30	48·3	39·0	43·7	− 1·6	25	8	2	0·22	−0·43	21·0	+ 3·4	34	+ 6
	Parsonstown	53	24	48·7	34·6	41·7	− 1·8	19	31	3	0·62	−0·02	19·5	+ 4·3	32	+ 6
	Kilkenny	51	25	48·3	35·1	41·7	− 3·6	18	29	3	0·63	−0·08	*	*	*	*
	Roche's Point	53	33	50·1	41·1	45·6	− 1·4	29	3	3	0·80	−0·30	*	*	*	*
	Valencia	55	28	51.3	40·4	45·9	− 1·9	34	4	4	1·04	−0·32	23·0	+ 6·9	37	+11
	Killarney	53	22	51·6	37·9	44·8	− 1·4	37	11	4	1·07	?	*	*	*	*
	Foynes	52	28	48·7	40·0	44·4	− 0·4	25	6	3	0·28	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	51·9	44·4	48·2	− 1·8	43	0	3	0·61	−0·24	15·1	?	24	?
	Jersey	52	35	50·1	40·4	45·3	− 3·5	30	4	3	0·73	−0·30	19·4	+ 1·3	30	+ 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

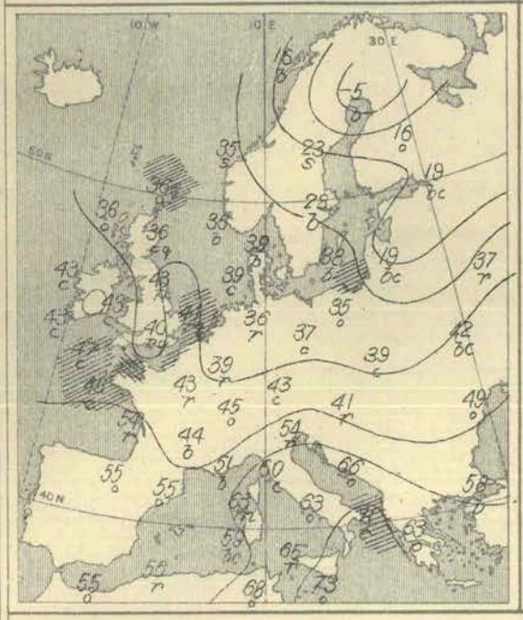
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

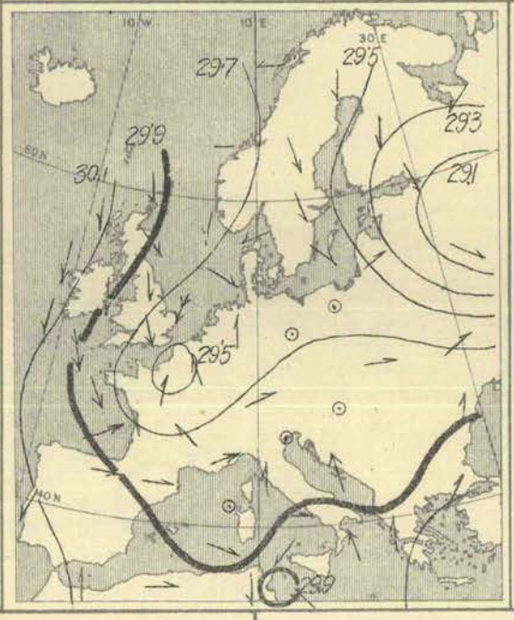
ERRATA:—Glenlee Rainfall, the "difference from the mean" for the weeks ending Oct. 24th, 31st, and Nov. 7th, should read "−0·56" "−1·20" and "−1·18" respectively.

Sunday, 8th November.

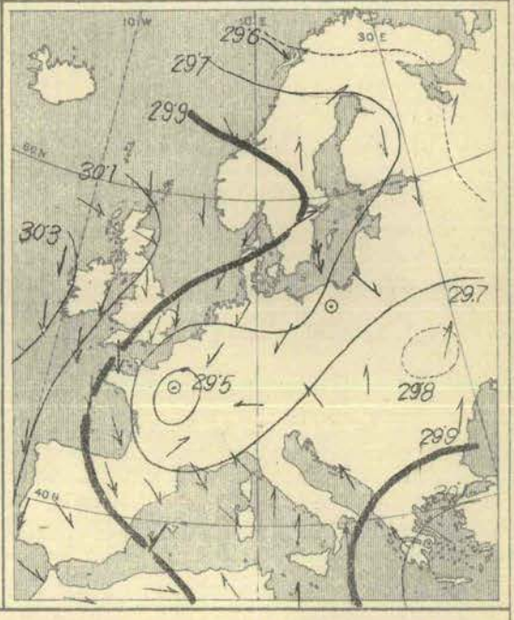
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of northern Europe, as well as in some parts of Spain and the east of Ireland; very unsettled over the greater part of the Continent and England, with rain or snow in several places—especially over the south-east of England and the north of France. Further falls of rain occurring over Germany, France, and all but the western parts of the United Kingdom during the day—the amounts being very large in some parts of France and Belgium; a thunderstorm occurring at Biarritz.

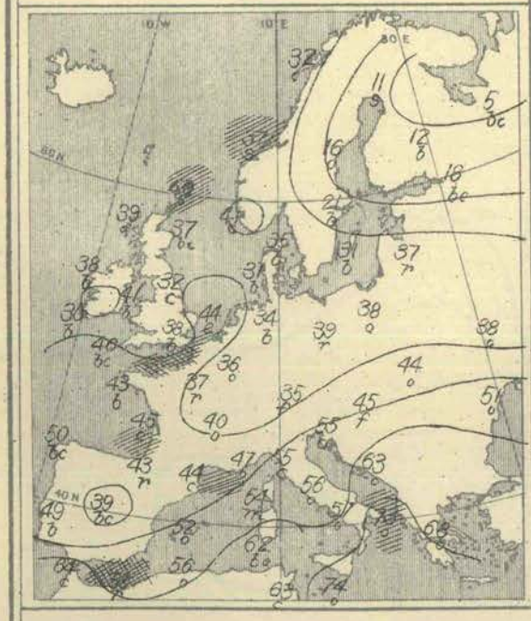
Temperature unsteady; changing very fitfully over the British Islands, with a tendency to fall quickly. Highest, 73° at Malta, 71° at Brindisi, and exceeding 50° on most of the shores of the Mediterranean. Lowest, −5° at Haparanda, −3° at Archangel, and much below the freezing point over northern Europe generally; 33° at Parsonstown, 37° to 40° over the inland parts of Great Britain. Air very keen over England. Failing to reach 50° over the British Islands during the day.

Wind South-South-Easterly and strong over the Adriatic. Variable and light over France and central Europe generally. Northerly over the British Islands, and blowing a gale on our south-east coasts; Northerly to North-Westerly over northern Europe. The gale in the south-east of England dying down later, and North-Westerly to Westerly winds setting in over the northern parts of Scandinavia.

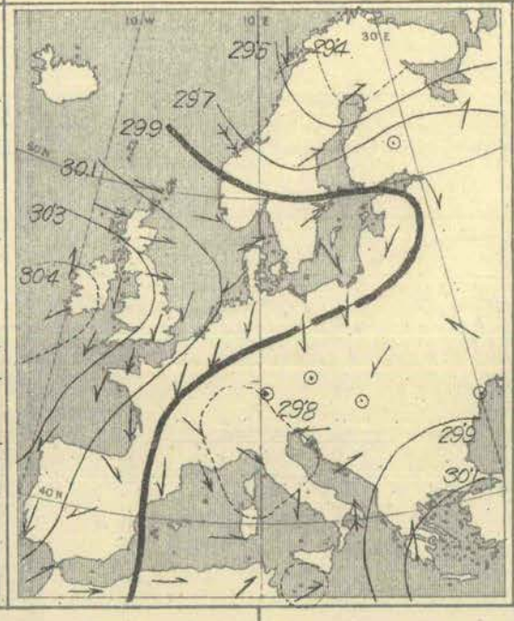
Barometer highest, 30·1 ins. and more over Morocco, Portugal, the west of Ireland, and all neighbouring parts of the Atlantic, as well as over Asia Minor and Greece. Lowest, below 29·1 ins. over central Russia, and below 29·6 ins. in a small well-marked depression over the Straits of Dover. Latter system moving southwards later, that over Russia filling up; barometer rising decidedly over Ireland and Scotland.

Monday, 9th November.

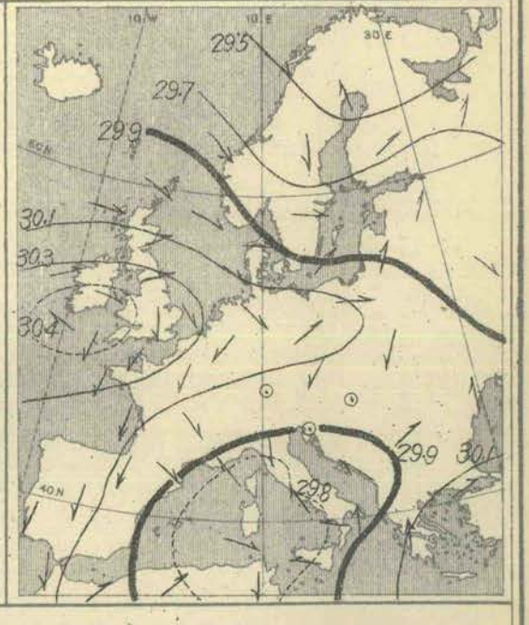
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the British Islands and their neighbourhood, but unsettled both over northern Europe and the south of France, with rain in some localities. Rain again falling in considerable quantity later at the French stations and over Algeria and Italy, and in small quantity in the north and north-west of our Islands; snow in several parts of Scandinavia, but fine weather continuing over England.

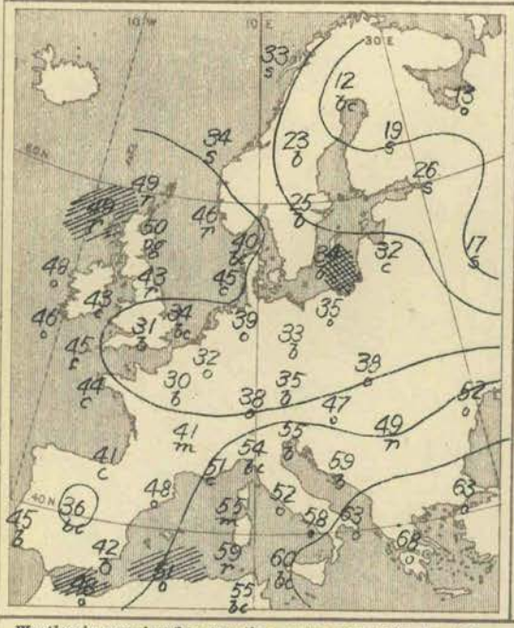
Temperature fallen over Ireland, England, and France, risen over Norway. Morning readings highest, 74° at Malta, 73° at Brindisi, 68° at Athens, 51° at Nicolaieff, 50° at Corunna. Lowest, (1) 5° at Archangel, 11° to 19° over Finland and the Gulf of Bothnia; (2) 24° at Parsonstown, 31° to 36° over the northern and midland parts of England, 35° at Munich, 37° at Paris. Rising decidedly over Scotland and Ireland during the day, but at night again cold over England and France.

Wind Westerly (South-West to North-West) over Scandinavia and the northern parts of our Islands, and blowing a gale at Christiansund; very light and variable over Ireland; North-Easterly to Northerly, moderate to strong, over Spain, France, the Netherlands, and the east and south of England. The Westerly wind in Scotland beginning to spread southwards during the day, while the North-Easterly winds in the south fell light.

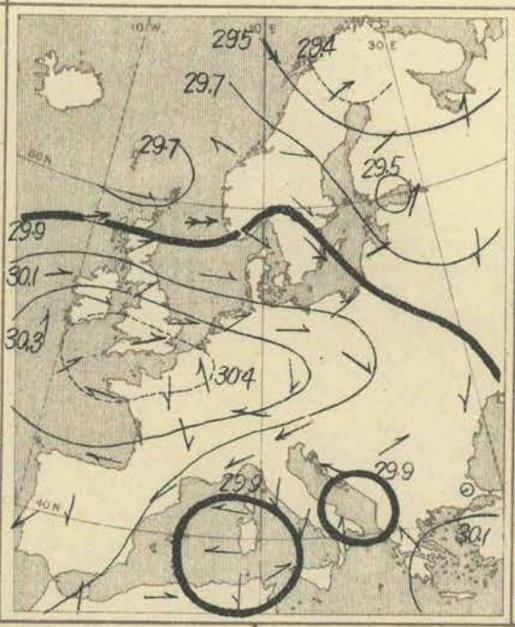
Barometer highest, 30·4 ins. and more to 30·3 ins. over the western parts of our Islands and the neighbouring parts of the Atlantic, and exceeding 30·0 ins. in a "ridge" stretching thence across the North Sea and Denmark to the Baltic. Lowest, (1) below 29·4 ins. in a depression over Lapland; below 29·7 in another over the south-east of France and north of Italy. Falling rather decidedly in the north-west and north of the British Islands later, rising over France.

Tuesday, 10th November.

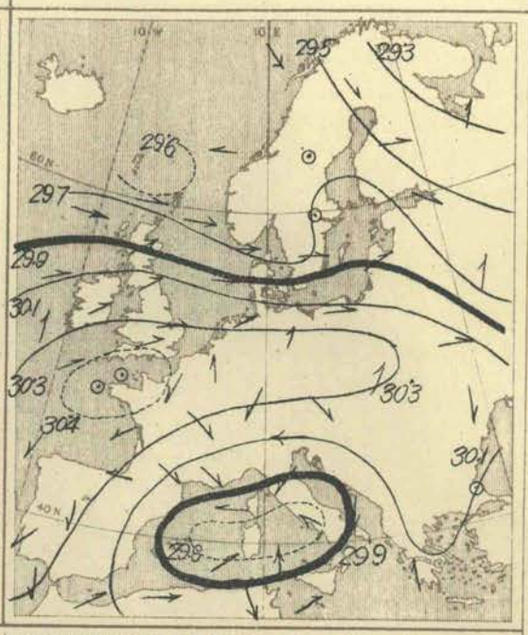
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of England, France, Spain, and many parts of central Europe, dull and unsettled elsewhere, with rain or snow at many of the northern stations, and rain at Cagliari and Hermanstadt. Considerable rain falling in the north of Scotland later, and small quantities in the west and south of Scotland and the north of Ireland; snow over Scandinavia. Lunar halo seen at Prawle Point.

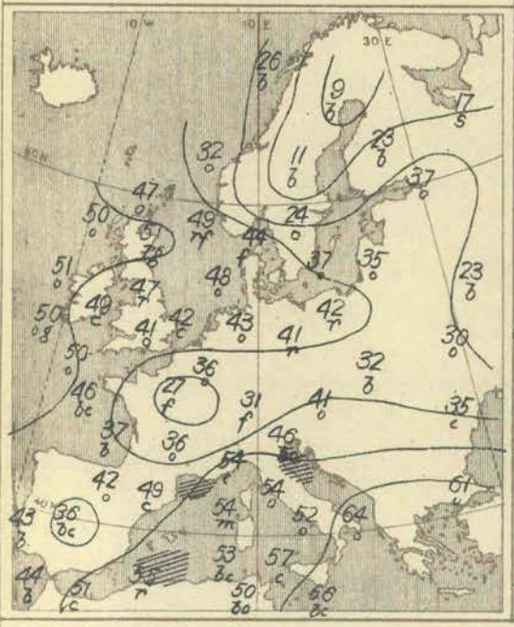
Temperature risen decidedly over Ireland and Scotland, fallen over France and the south of England. Morning readings highest, 68° at Athens, 63° at Brindisi, 59° at Lesina, 51° at Nice; 50° to 40° at the Scotch stations. Lowest, 12° at Uleaborg, 13° at Haparanda and Archangel, 17° at Moscow, 30° at Paris and Le Mans, 31° in London, 32° at Cambridge and Brussels. Rising later to between 50° and 53° over all the northern and western parts of the British Islands, to 52° at Brest, to 64° at Nice, and to 73° at Palermo. Succeeding night cold over England and France.

Wind moderate to light from the North-Eastward and Northward over Spain, France, and western Austria; Westerly to North-Westerly over the northern countries generally, and blowing strongly from the latter point over the Baltic. Anticyclonic airs reported over the south of England and north of France. Blowing a gale from the Westward in the north of Scotland and south-west of Norway later, very little change over England and France.

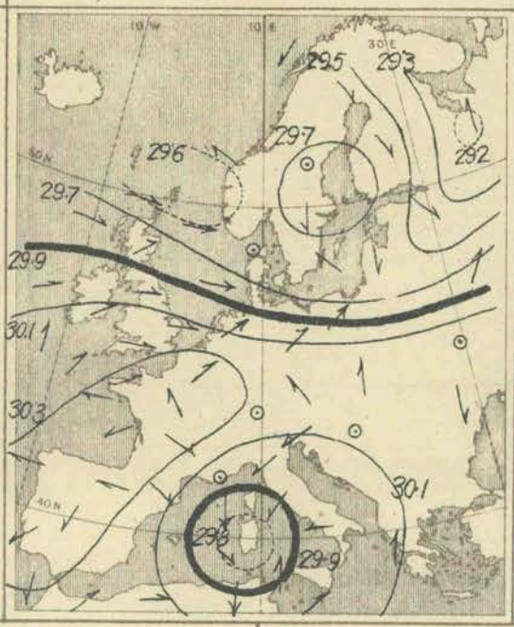
Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone covering Ireland, England, France, Germany, and Spain, with the neighbouring parts of the Atlantic. Lowest, (1) 29·4 ins. and less over Lapland, and below 29·5 ins. in a secondary disturbance over the Gulf of Finland; (2) below 29·7 ins. over the Shetland Islands; (3) below 29·9 ins. in a complex disturbance over the eastern parts of the Mediterranean and the Adriatic. The depression over the Shetlands moving eastwards later, and barometer falling slightly all over the United Kingdom.

Wednesday, 11th November.

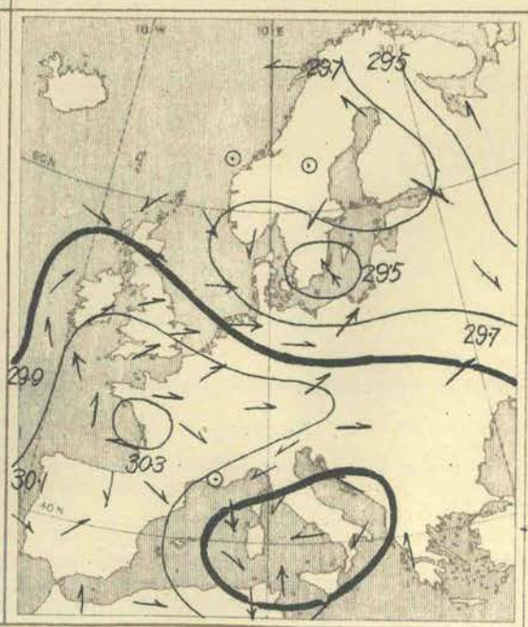
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain, the west of France, and many parts of central Europe, as well as over Finland, Lapland, and the north of Sweden; cloudy or overcast in the United Kingdom, rainy at Aberdeen and Skudesnaes, and foggy at some of the French stations. Some rain falling later over the northern parts of the British Isles, and in north Germany, snow in Sweden and Norway; heavy local rainfall at La Calle; sky thickly overcast over the British Isles.

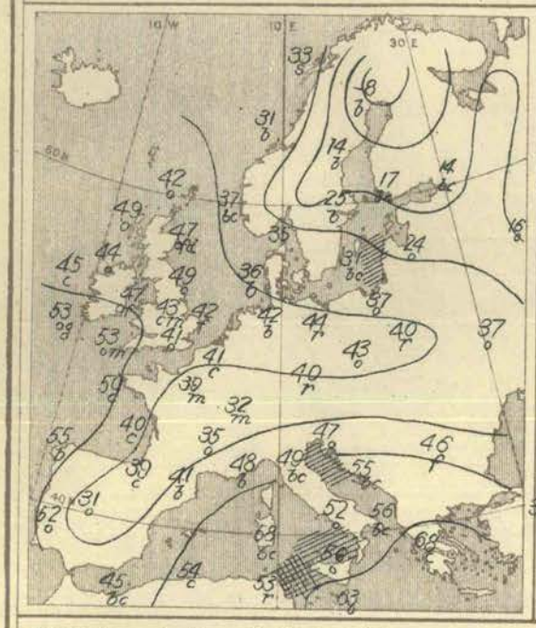
Temperature risen decidedly over England and Ireland, as well as in many parts of north Germany. Morning readings highest, (1) 68° at Athens, 66° at Malta, 64° at Brindisi, 54° at Leghorn; (2) 52° to 50° at most of our extreme western and northern stations. Lowest, (1) 9° at Haparanda, 11° at Hernösand, 17° at Archangel, and 23° at Moscow, 27° at Kharkov; (2) 27° at Paris, 28° at Belfort, 30° at Limoges, 31° at Munich. Rising to between 56° and 50° over the greater part of our Islands later, and to between 50° and 54° in the north-west of France, and to 61° at Nice.

Wind Southerly to Westerly over the British Isles, moderate to strong in force, Westerly over the North Sea and north Germany, and blowing rather strongly in several places; North-Easterly to North-Westerly over southern Europe and the Mediterranean, and north of the Adriatic, but South-Easterly and light at Brindisi and Patras; nearly calm over Spain, western and central France. Backing to South or South-South-East at many of our western stations later, little change elsewhere.

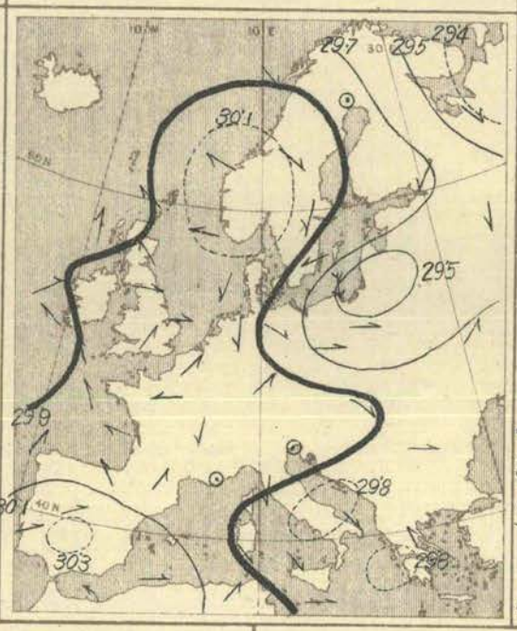
Barometer highest, 30·3 ins. and more over Spain, the Bay of Biscay, and France, and apparently over the eastern part of the Black Sea also, and exceeding 30·2 ins. in a band or "col" uniting these two areas, and lying over the southern parts of Germany and Austria. Lowest, 29·2 ins. and less over the White Sea, 29·6 ins. and less between the Shetland Islands and Norway, and 30·0 ins. to 29·8 ins. and less in a complex depression covering the eastern part of the Mediterranean, Italy, and the Adriatic. Rising over Scandinavia during the day, falling over Ireland, England, and France.

Thursday, 12th November.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

Weather in morning fine and bright over Lapland, Sweden, the eastern shores of the North Sea, as well as over many parts of France; very dull over the British Islands, with rain at some of the northern and western stations, dull and rainy over central Europe. Rain falling later over the north-west of Norway, Scotland, and Ireland, and local showers in some parts of France and Germany; weather remaining fair but cloudy over England, clearing over France.

Temperature risen decidedly over central Europe and France. Morning readings highest, 68° at Athens, 63° at Malta, 54° at Barcelona; exceeding 50° at many of the coast stations in the extreme west of Spain, France, and the British Isles. Lowest, −8° Fahr. at Haparanda, +14° at Hernosand and St. Petersburg, and much below the freezing point over northern Europe generally; 32° at Belfort and Le Mans, 35° at Lyons. Rising later to between 50° and 55° in many parts of our Islands, and touching 61° at Nice and Perpignan.

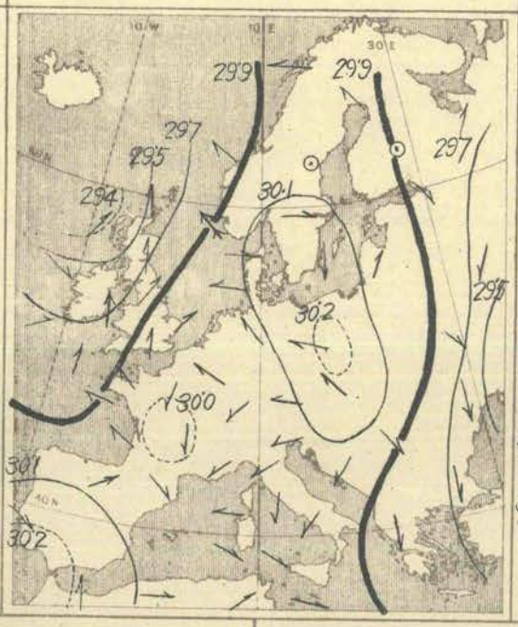
Wind light and anticyclonic over Spain, France, the North Sea, and Norway; South-Easterly (cyclonic) over Brittany and our own south-west coasts, North-Westerly over northern Europe. Two separate cyclonic circulations observed—one over the eastern provinces of Germany and western Russia, the other over the Adriatic and Italy. Wind becoming more Southerly over the western parts of the United Kingdom later.

Barometer highest, 30·2 ins. and more over the southern half of Spain and Morocco, and exceeding 30·0 ins. over the whole of France and the greater part of Norway and England. Lowest, below 29·4 ins. over the north of Russia; below 29·5 ins. over the north-east of Germany and west of Russia; below 29·8 ins. over Italy, the Adriatic, and south-eastern Europe, and below 29·9 ins. to the south-westward of the British Islands. Falling later at our western and northern stations generally.

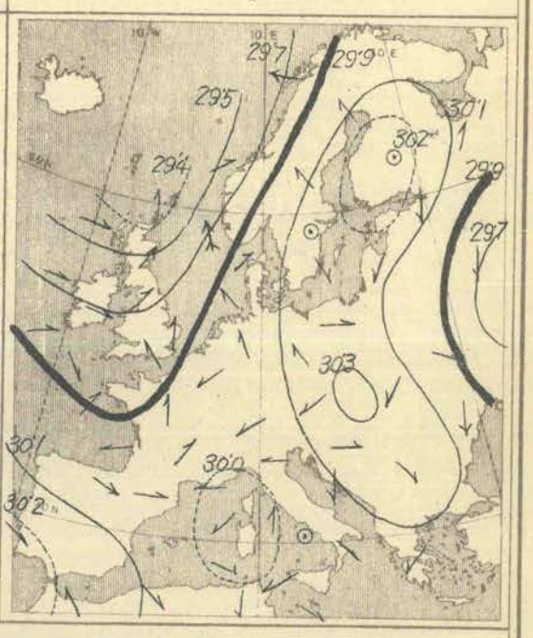
Friday, 13th November.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Italy, south-eastern Europe, and many parts of Sweden; fair but dull over central Europe, overcast and unsettled over the British Islands on the one hand, and the south of Russia on the other. Rain falling later in all parts of the United Kingdom, and over the western half of France; snow in the north-west of Russia. A heavy local rain (1·3 ins.) at Oxford.

Temperature fallen over the south-east of England and in many parts of continental Europe. Morning readings highest, 64° at Malta, 58° at Athens, 56° at Lisbon, and above 50° at many of the most southern stations, as well as at Scilly. Lowest, −5° Fahr. at Ulleaborg, +12° at St. Petersburg, and much below the freezing point over Russia, northern and central Europe generally; 31° at Paris, 34° in London. Rising to between 54° and 50° in many parts of Ireland and England during the day, and touching 57° at Nice, 63° at Lisbon, 65° at Cape Bearn, and 68° at Palermo.

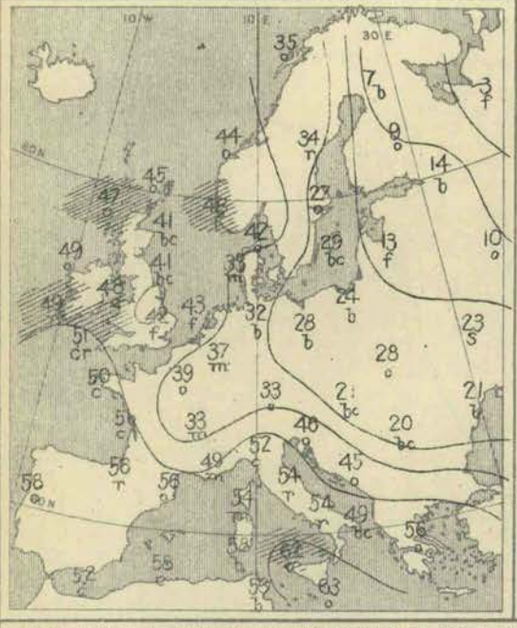
Wind light and anticyclonic over northern and central Europe; Southerly over the British Islands, South-Easterly to Easterly in Norway, Northerly and North-Westerly, however, over Russia, and blowing strongly at Odessa. Veering Westward over our western districts later, but backing again rapidly at night.

Barometer highest, 30·2 ins. and more to 30·6 ins. in a large anticyclone covering Germany, the Baltic, and Sweden. Lowest, 29·4 ins. and less in a depression off our north-west coasts, and in another over the southern half of Russia. Rising somewhat over Ireland and Scotland later, as well as over Russia, but a fresh fall setting in at the western stations after midnight.

Saturday, 14th November.

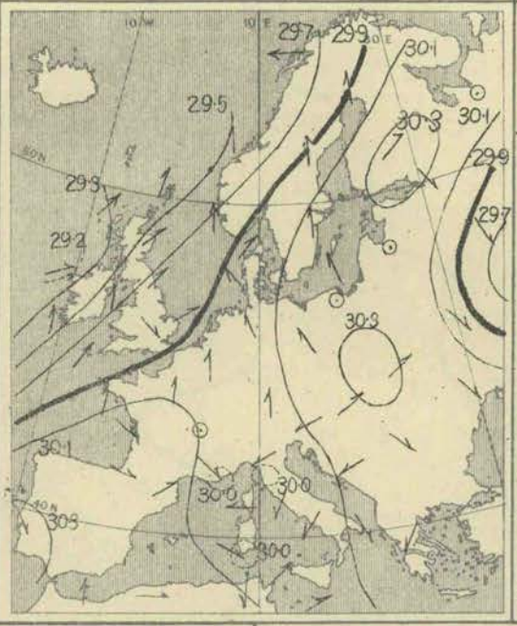
Temperature and Weather.

8 a.m.

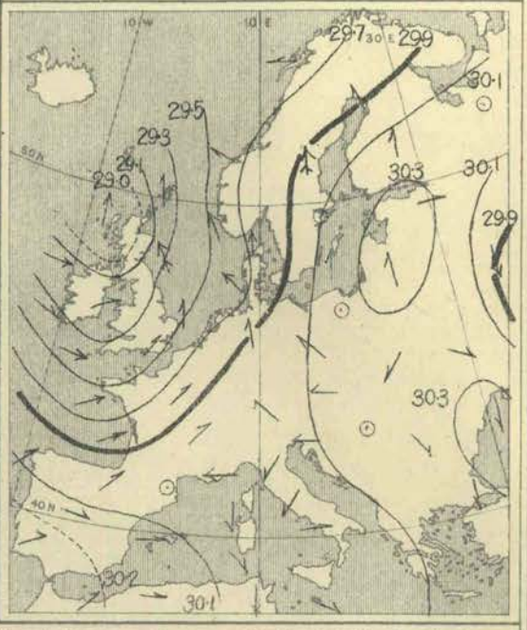


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and quiet over Finland, the Baltic, central Europe, Spain, and the southern parts of France; very foggy and damp over England; overcast, rainy, and squally over Ireland and the west of Scotland. Dull over central Russia, with snow at Kiev. Rain falling later in all parts of the British Islands and France—the largest amounts being 0·8 in. at Brest, 0·7 in. at Jersey, and 0·5 in. at several of our western stations; lightning seen in the north of Ireland.

Temperature risen considerably over England and France, rapidly over Scandinavia, fallen over Russia. Morning readings highest, 63° at Malta, 55° at Algiers and Lisbon, and above 50° on the Atlantic coasts of France and the south-west coasts of England; 48° at Skudesnaes, and 47° at Stornoway. Lowest, −3° at Archangel, +7° at Uleaborg, 10° at Moscow, and much below the freezing point over Russia and the eastern parts of central Europe; 33° to 36° over our Midland counties. Rising later to between 50° and 52° in many parts of England and the south of Ireland, to 61° at Perpignan, and to 63° on the Spanish coasts.

Wind (1) Northerly to North-Westerly, light to moderate over Russia; (2) light and anticyclonic over the greater part of northern and central Europe; (3) South-Westerly to Southerly over the British Islands, and blowing strongly on our north-western and western coasts—a gale at Roches Point. Increasing to a gale on our north-western and northern coasts later, and blowing very strongly for a brief interval in the south of England also.

Barometer highest, 30·3 ins. to 30·1 ins. (1) over Finland, the Baltic, and central Europe; (2) over the Iberian Peninsula and the south-west of France. Lowest, below 29·2 ins. in a depression off the north-west coast of Ireland; and below 29·8 ins. in another over central Russia. A few very small and shallow disturbances over the Mediterranean also. The north-westerly depression reaching Scotland later, while a depression advanced eastwards over England.

GENERAL NOTES.

There have been many and considerable changes in the distribution of pressure during the week. At the commencement almost the whole of the Continent was dominated by a complex low pressure area—the primary system lying over central Russia, while the secondary lay over the north-east of France, and was moving southwards. Cold Northerly gales prevailed over the United Kingdom, accompanied by sleet and cold rain, but these subsided during the day, and in Scotland the wind began to back. During Monday and Tuesday a well-marked anticyclone spread in from the Atlantic over Ireland, England, and the north of France, bringing with it fine but foggy weather and very light winds, while various disturbances appeared over northern Europe and moved south-eastwards towards Russia. In the course of Thursday and Friday this high pressure system underwent considerable modification, and being joined by another anticyclone over Russia, became the dominant system over the greater part of Europe by Saturday. Depressions of considerable intensity then approached our western coasts, bringing about a temporary spell of Southerly winds over the British Islands and their neighbourhood, accompanied by a very general rain.

Over the Mediterranean very unsettled weather was prevalent on the 10th and 11th.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 272.

STATIONS.*	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	2·3	−10·7	4	− 18	SOUTHPORT	14·0	?	23	?
OSWALDKIRK (Yorkshire)	11·2	− 0·3	19	− 1	MANCHESTER (Oldham Road)	2·8*	?	5*	?
WORKSOP	8·2	− 3.4	13	− 6	COLWYN BAY				
THURCASTON (Leicestershire)	9·5	− 3·5	16	− 5	TENBY	*		*	
MARGATE	9·0	− 6·2	14	− 10	NEWQUAY	19.0	+ 1·0	30	+ 1
WESTBOURNE (Sussex)	16·4*	+ 2·6	26*	+ 3	TORQUAY	21·3*	+ 6·1	34*	+ 10
BRIGHTON	22·3	+ 5·7	35	+ 9	ARLEY COTTAGE (County Cavan)	16·3	+ 0·5	27	+ 1
EASTBOURNE	20·1	+ 5·1	32	+ 8	GUERNSEY	21·2*	+ 6·2	33*	+ 10

* The values at Westbourne, Manchester, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Aug. 8th, 1896	Fort Augustus	70	36	64·9	46·9	55·4	− 1·1	94	0	3	0·12	−0·66	20·5	+ 4·1	19	+ 4
,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	37·7	+15·7	55	+14
,, ,, ,, 15th, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	49·6	+ 7·6	48	+ 6
,, ,, ,, 29th, ,,	Churchstoke	66	40	61·6	48·0	54·4	− 2·2	87	0	4	0·56	-0·02	20·5	−15·6	21	- 17
,, ,, Sept. 5th, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	25·9	−13·8	28	-14
,, ,, ,, ,, ,,	Killarney	67	33	62·4	46·6	52·1	- 4·0	85	0	3	0·48	?	—	—	—	—
,, ,, ,, 19th, ,,	Fort Augustus	69	43	58·7	45·5	51·8	- 1·0	69	0	6	2·36	+1·46	21·7	+ 4·4	25	+ 5
,, ,, ,, ,, ,,	Blackpool	64	49	62·6	53·1	57·6	+ 2·5	109	0	5	1·25	+0·40	21·9	- 3·3	25	- 8
,, ,, ,, ,, ,,	Killarney	68	45	62·3	50·2	56·0	+ 0·6	98	0	7	1·36	?	—	—	—	—
,, ,, ,, 26th, ,,	Edgeworthstown	60	42	57·2	43·5	49·9	- 1·7	55	0	7	2·09	+1·44	—	—	—	—
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	38·3	+ 0·3	40	+ 1
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	22·4	-10·6	27	- 13

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 47.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 21ST, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 278.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
				Averages of				For the Week.				From December 29th, 1895.			
		Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	30	48·0	38·1	43·1	2 above	24	+ 8	11	- 6	2092	+162	446	- 265
	1. SCOTLAND, EAST	54	28	47·1	35·5	41·3	1 above	14	- 3	26	+ 5	2410	+ 93	586	- 170
	2. ENGLAND, N.E.	52	22	46·4	35·6	41·1	1 below	12	-10	26	+11	2672	+153	452	- 155
	3. ENGLAND, EAST	51	28	46·6	35·0	40·8	2 below	13	-12	28	+11	3020	+107	545	- 141
	4. MIDLAND COUNTIES	51	27	46·2	33·5	39·9	2 below	12	-12	33	+14	2978*	+ 95	557*	- 149
	5. ENGLAND, SOUTH	54	29	48·3	37·0	42·7	2 below	26	- 7	14	+ 5	3393	+212	329	- 190
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	29	48·1	38·9	43·5	1 above	24	+ 2	9	- 4	2633	+183	365	- 162
	7. ENGLAND, N.W.	52	26	47·5	36·7	42·1	2 below	23	- 2	15	+ 5	2936	+246	316	- 186
	8. ENGLAND, S.W.	53	23	49·1	36·2	42·6	3 below	29	- 8	16	+10	3273	+273	275	- 111
	9. IRELAND, NORTH	55	27	49·1	37·5	43·3	1 above	28	+ 6	13	0	2767	+183	284*	- 163
	10. IRELAND, SOUTH	54	27	50·3	38·6	44·6	1 below	32	- 1	10	+ 1	3197	+250	219	- 123
	—CHANNEL ISLANDS	55	39	52·3	43·5	47·9	1 below	41	-12	0	- 1	3845	+377	39	- 111

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 278.)	Rainfall. For the Week.			Rainfall. From December 29th, 1895.				Bright Sunshine. For the Week.				Bright Sunshine. From December 29th, 1895.			
		Number of Rainy Days	Total Fall.	More or less than the mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	4 less	223	+ 5	50·5	+ 5·0	9	+ 3	17	+ 6	963	- 71	23	- 2
	1. SCOTLAND, EAST	4	3	5 less	185	+ 6	25·0	- 4·4	9	- 1	17	- 2	1222	- 16	29	- 1
	2. ENGLAND, N.E.	3	2	4 less	169	+ 1	21·3*	- 2·3	19	+ 9	33	+15	1205	- 30	29	- 1
	3. ENGLAND, EAST	2	1	5 less	163	- 1	22·0	- 1·5	23	+10	40	+18	1449	- 28	35	- 1
	4. MIDLAND COUNTIES	3	2	4 less	158	- 3	21·2	- 4·2	18	+ 8	31	+14	1302*	- 14	32	0
	5. ENGLAND, SOUTH	3	2	5 less	149	- 7	22·0	- 3·9	21	+ 8	35	+14	1544	- 2	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	5 less	192	+ 6	39·6	- 3·9	11	+ 1	20	+ 1	1305	- 1	31	0
	7. ENGLAND, N.W.	4	4	5 less	175	0	30·7	- 0·7	13	+ 6	22	+11	1227*	+ 23	32	+ 1
	8. ENGLAND, S.W.	5	4	6 less	157	-20	26·6	- 8·5	22	+ 8	36	+13	1682	+ 89	41	+ 2
	9. IRELAND, NORTH	5	5	4 less	202	- 1	35·0	+ 1·4	16	+ 2	28	+ 4	1179	- 41	28	- 1
	10. IRELAND, SOUTH	4	3	6 less	173	-11	30·7	- 4·0	17	+ 2	28	+ 3	1375	- 11	33	0
	—CHANNEL ISLANDS	5	3	7 less	176	-12	25·0	- 4·5	21	+ 4	35	+ 6	1857	+ 19	45	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was unsettled and rainy in all parts of the Kingdom at the commencement of the week. The conditions, however, soon improved in the south and east, and later on fine, dry weather extended to almost all districts.

Temperature was again a little above the mean over Scotland, and also in Ireland N., but continued rather below it elsewhere. The highest of the maxima were recorded during the latter part of the week, when they ranged from 55° in Ireland N. and the Channel Islands to 51° in England E. and the Midland counties. The lowest of the minima were registered on very irregular dates, and ranged from 22° in England N.E., and 23° in England S.W. (at Llandovery), to 30° in Scotland N., and to 39° in the Channel Islands.

Rainfall was less than the mean in all districts; over the east and south of Great Britain the fall was very slight.

Bright Sunshine exceeded the mean in nearly all parts of the Kingdom. The percentage of the possible duration ranged from 17 in Scotland N. and E., to 35 in England S. and the Channel Islands, 36 in England S.W., and 40 in England E.

Barometer and Wind.—At the commencement of the week a well-defined depression moved southwards directly over Great Britain, causing strong winds and gales from the North-Westward on all our western coasts. As the system disappeared over France the barometer rose briskly in the north and west, and on the 17th a long band of high pressure extended from Scandinavia to central England and Ireland, the wind consequently becoming South-Westerly in the north, and North-Easterly in the south. By the 16th the barometer had fallen decidedly, and some "V"-shaped depressions were passing over the Kingdom, the wind varying between South-West and North-West. As these disturbances moved away eastwards an anticyclone gradually extended over our Islands from the southward, and the winds became light from the Westward very generally.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 277 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	37	48·1	40·6	44·4	+ 2·7	23	4	7	0·65	−0·33	*	*	*	*
	Stornoway	52	34	49·6	38·9	44·3	+ 2·7	29	9	6	0·76	−0·36	9·2	+ 0·4	17	0
	Wick	54	32	49·0	37·4	43·2	+ 2·2	28	13	4	0·35	−0·32	*	*	*	*
	Lairg Ⓢ	54	30	46·1	35·2	40·7	+ 2·0	11	27	4	0·41	−0·39	*	*	*	*
	Glencarron Ⓢ	51	33	47·5	36·9	42·2	+ 2·2	23	14	6	1·40	−0·87	*	*	*	*
	Fort Augustus Ⓢ	51	32	47·9	36·6	42·3	+ 1·3	25	15	6	0·85	−0·20	16·6	+13·6	31	+25
	Fort William Ⓢ	51	37	48·1	40·9	44·5	+ 3·8	22	3	6	1·64	−0·26	1·5	− 4·0	3	− 7
1. SCOTLAND, E.	Nairn	54	32	50·3	35·9	43·1	+ 3·1	33	17	4	0·19	−0·33	*	*	*	*
	Aberdeen	50	33	45·7	37·0	41·4	+ 0·4	10	20	5	0·28	−0·50	13·5	+ 1·5	25	+ 3
	Braemar Ⓢ	50	30	43.3	34·5	38·9	+ 1·5	4	27	4	0·33	−0·50	6·2†	0·0†	12†	0†
	Ochtertyre Ⓢ	53	30	47·9	35·3	41·6	+ 1·5	17	28	3	0·38	−0·64	*	*	*	*
	Leith	52	29	48·7	35·9	42·3	0·0	28	17	4	0·13	−0·37	*	*	*	*
	Marchmont Ⓢ	49	27	46·6	34·4	40·5	+ 0·7	13	30	5	0·41	−0·43	10·5	− 1·3	19	− 3
2. ENGLAND, N.E.	Alnwick Castle	52	22	45·9	33·1	39·5	− 1·9	11	34	3	0·62	−0·14	*	*	*	*
	Durham	52	27	46·4	32·7	39·6	− 1·4	12	36	3	0·23	−0·41	16·8	+ 5·5	30	+ 9
	Shields	51	32	47·1	35·4	41·3	− 1·0	14	27	4	0·40	−0·16	*	*	*	*
	Scarborough Ⓜ	49	34	45·5	38·4	42·0	− 0·8	10	10	2	0·02	−0·65	*	*	*	*
	York	51	31	47·6	34·1	40·9	− 0·9	16	32	3	0·11	−0·39	19·0	+10·5	33	+18
	Spurn Head	48	36	45·7	39·7	42·7	− 0·5	15	6	2	0·03	−0·49	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	48	28	45·9	33·3	39·6	− 2·2	11	33	1	0·06	−0·57	20·9	+ 9·4	36	+16
	Yarmouth	47	33	45·3	37·1	41·2	− 1·8	9	19	2	0·06	−0·62	*	*	*	*
	Geldeston	49	30	46·9	35·3	41·1	− 1·9	14	27	4	0·05	−0·56	21·6	+ 7·9	37	+13
	Cambridge	49	29	47·7	34·3	41·0	− 1·0	16	31	1	0·02	−0·46	23·1	+ 9·5	39	+16
	Rothamsted	51	32	47·1	35·0	41·1	− 0·6	14	28	3	0·18	−0·45	27·0	+14·3	46	+24
4. MIDLAND COUNTIES	Harrogate Ⓜ	50	32	45·6	34·2	39.9	− 0·7	10	30	4	0·11	?	11·7	?	20	?
	Bawtry (Hesley Hall)	49	31	46·1	34·4	40·3	− 1·5	11	30	3	0·11	−0·37	*	*	*	*
	Loughborough	48	29	46·4	33·0	39·7	− 3·2	12	35	3	0·19	−0·31	*	*	*	*
	Stamford (Duddington)	48	30	45·7	33·1	39·4	− 2·4	10	34	2	0·09	−0·57	*	*	*	*
	Cheadle Ⓜ	48	31	45·1	34·8	40·0	− 0·9	9	28	4	0·42	−0·26	*	*	*	*
	Shirley (near Solihull)	49	31	45·1	33·2	39·2	− 2·8	9	33	4	0·28	?	*	*	*	*
	Churchstoke Ⓜ	50	28	46·7	32·3	39·5	− 1·9	13	37	4	0·22	−0·58	15·1	+ 4·4	26	+ 8
	Hereford Ⓜ	49	28	46·9	33·5	40·2	− 2·6	14	33	2	0·23	−0·39	*	*	*	*
	Cirencester	50	27	46·9	32·0	39·5	− 2·0	14	39	3	0·24	−0·47	21·6	+ 9·9	37	+17
	Oxford	51	32	47·9	34·4	41·2	− 1·7	17	31	2	0·16	−0·42	24·8	+12·8	42	+21
5. ENGLAND, S.	London	50	31	48·0	36·1	42·1	− 1·5	25	17	3	0·19	−0·32	11·1†	+ 3·3†	19†	+ 6†
	North Foreland	50	35	47·4	39·3	43·4	− 1·1	21	8	2	0·06	?	*	*	*	*
	Dungeness	52	31	48·7	37·1	42·9	− 1·8	27	14	3	0·22	−0·55	*	*	*	*
	Hastings (St. Leonards)	51	35	47·9	38·4	43·2	− 1·4	24	10	3	0·36	−0·40	27·0	+12·0	45	+20
	Southampton	54	32	49·6	37·0	43·3	− 0·9	30	14	3	0·15	−0·56	19·5	+ 6·5	33	+12
	Hurst Castle	50	34	48·6	37·9	43·3	− 2·4	26	11	3	0·12	−0·59	*	*	*	*
	Stowell Ⓜ	50	29	47·5	33·2	40·4	− 3·6	15	35	6	0·30	−0·56	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	37	49·1	40·8	45·0	+ 2·3	26	3	6	1·48	−0·60	*	*	*	*
	Glasgow	50	33	46·7	38·7	42·7	+ 1·7	19	9	4	0·43	−0·46	6·2	− 0·4	11	− 1
	Ardrossan	50	36	49·1	40·3	44·7	+ 1·7	26	5	6	0·58	−0·29	*	*	*	*
	Glenlee Ⓢ	49	29	46·4	36·6	41·5	+ 0·8	12	22	7	0·76	−0·73	*	*	*	*
	Douglas (Isle of Man)	51	31	49·4	37·9	43·7	− 0·5	29	11	3	0·81	−0·26	16·3	+ 2·5	29	+ 4
7. ENGLAND, N.W.	Stonyhurst	48	30	45·0	35·0	40·0	− 2·1	8	27	5	0·28	−0·74	14·8	+ 5·3	26	+10
	Blackpool Ⓜ	50	26	47·7	35·2	41·5	− 1·4	16	28	4	0·33	−0·45	15·8	+ 6·8	28	+12
	Manchester (Prestwich)	48	29	45·5	33·8	39·7	− 2·3	10	32	4	0·29	−0·51	8·1	?	14	?
	Liverpool Obsy. (Bidston)	50	32	47·6	37·3	42·5	− 1·0	23	13	3	0·42	−0·24	*	*	*	*
	Llandudno Ⓜ	52	34	49·2	39·1	44·2	− 1·1	28	8	3	0·40	−0·38	*	*	*	*
	Holyhead	51	35	49·7	39·9	44·8	− 1·4	28	6	4	0·46	−0·44	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	23	48·0	29·4	38·7	− 4·3	17	48	6	0·59	−0·59	*	*	*	*
	Pembroke	52	37	50·6	42·6	46·6	− 0·2	32	0	4	0·44	−0·51	24·5	+11·5	42	+20
	Clifton	50	32	46·7	36·0	41·4	− 1·6	13	25	2	0·12	−0·68	*	*	*	*
	Arlington (N. Devon)	50	29	48·1	35·7	41·9	− 1·8	17	26	5	0·50	−0 91	*	*	*	*
	Cullompton Ⓜ	52	26	48·1	31·2	39·7	− 5·1	17	42	4	0·34	−0·38	16 3	+ 5·3	27	+ 9
	Falmouth	53	37	51·1	40·3	45·7	− 2·0	33	5	6	0·47	−0·78	28·3	+13·3	46	+21
	Plymouth	52	32	49·8	36·8	43 3	− 3·0	31	15	6	0·37	−0·53	19·8	+ 6·8	32	+11
	Prawle Point	53	35	50·0	37·4	43·7	− 2·9	31	13	5	0·23	−0·47	*	*	*	*
9. IRELAND, N.	Malin Head	51	29	48·7	42·0	45·4	+ 1·3	24	0	4	0·46	?	*	*	*	*
	Londonderry	55	35	49·4	38·5	44·0	+ 1·1	29	10	5	0·56	−0·42	*	*	*	*
	Edenfel (Omagh)	51	30	47·9	37·3	42·6	+ 1·8	24	13	5	0 68	−0·12	*	*	*	*
	Belmullet	55	40	51·4	41·4	46·4	+ 1·4	33	2	3	0·45	−0·93	*	*	*	*
	Markree Castle	54	29	49·7	35·7	42·7	+ 0·1	31	18	6	0·68	−0·24	14·1	+ 1·4	25	+ 3
	Armagh	52	30	47·8	35·8	41.8	0·0	16	26	4	0·29	−0·36	15·0	+ 1·6	26	+ 2
	Donaghadee	52	32	49·1	35·6	42·4	− 1·4	30	18	6	0·45	−0·23	*	*	*	*
	Edgeworthstown	51	27	48·5	33·7	41·1	− 0·7	18	34	4	0·73	−0·07	*	*	*	*
10. IRELAND, S.	Dublin	53	32	49·9	39·1	44·5	− 0 3	30	8	3	0·13	−0·41	18·8	+ 2·8	32	+ 4
	Parsonstown	51	39	49·9	35·7	42·8	0·0	32	18	4	0·23	−0·47	14·5	0·0	25	0
	Kilkenny	51	27	49·9	33·7	41·8	− 3·2	22	35	3	0·16	−0·49	*	*	*	*
	Roche's Point	51	35	50·3	38·7	44·5	− 1·7	31	9	4	0·28	−0·84	*	*	*	*
	Valencia	54	35	51.4	41·7	46·6	− 0·6	33	1	5	0·63	−0·67	16·1	+ 2·4	27	+ 3
	Killarney	54	32	51·5	39·9	45·7	+ 0·5	35	6	5	0·41	?	*	*	*	*
	Foynes	53	33	50·3	41·6	46·0	+ 1·5	30	1	3	0·26	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	52·7	44·3	48·5	− 0·7	46	0	5	0·15	−0·75	27·9	?	46	?
	Jersey	55	39	51·9	42·6	47·3	− 0·7	37	0	5	0·41	−0·56	17·9	+ 2·4	29	+ 4

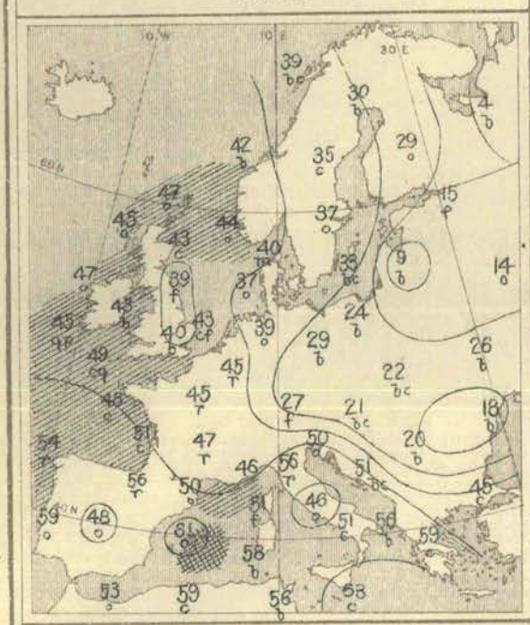
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 15th November.

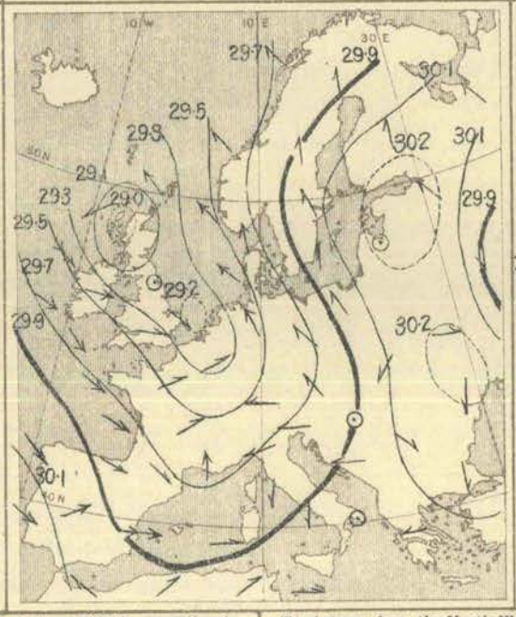
Temperature and Weather. 8 a.m.

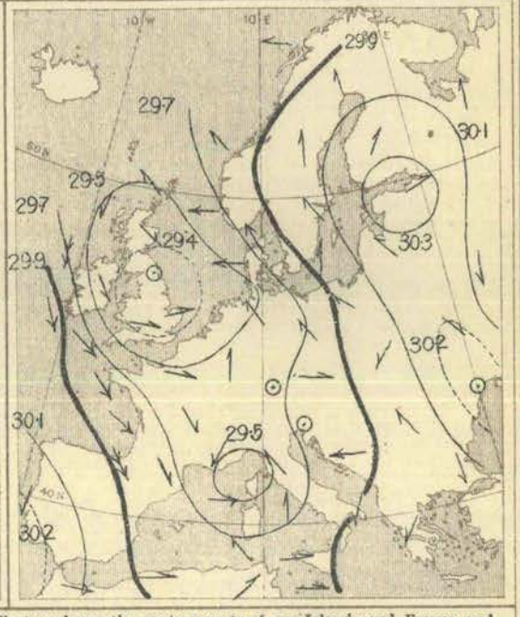


Weather in morning fine over the eastern and central parts of Great Britain, as well as in Scandinavia, eastern Germany, and the west and south of Russia. Cloudy or dull elsewhere, with showers at several of our own western stations, and with steady rain over the Netherlands, the central and southern parts of France, and the extreme northern parts of Spain and Italy, as well as at Athens. Rain falling later over western and southern Europe generally—heavily over the south of France and the neighbouring parts of Spain and Italy (as much as 3·5 ins. recorded next morning at Nice, and 2·1 ins. at Rome).

Temperature changed rather irregularly. Morning readings highest, 63° at Malta, 61° at Palma, and 59° at Lisbon and Algiers; above 50° at most of the Mediterranean and Adriatic stations. Lowest, 4° at Archangel, 9° at Riga, 10° at Kharkov, and 14° at Moscow; below the freezing point over eastern and central Europe generally. Rising during day to 50° and upwards in the north of Scotland, and also at some of the central and southern stations in England; exceeding 60° in many parts of southern Europe, and reaching 68° at Palermo. Frost occurring over central England at night.

Barometer and Wind. 8 a.m. and 6 p.m.



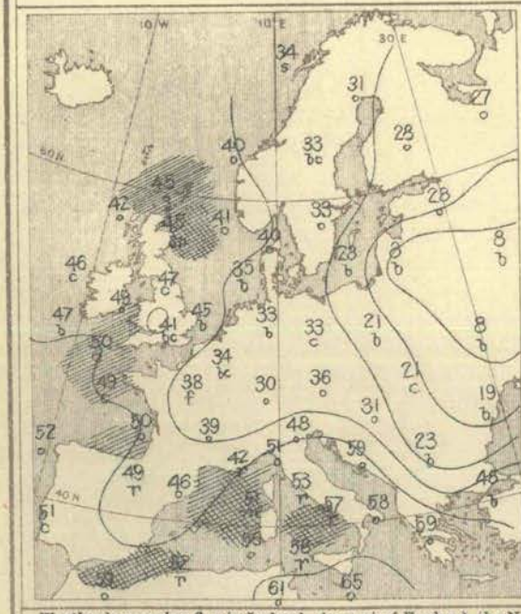


Wind strong from the North-Westward over the western parts of our Islands and France, and also over the Spanish Peninsula, with a gale in the north of Ireland. Moderate from the Westward over the eastern and central parts of England; light from the South-Westward over Belgium and central France. Light to fresh from the Southward in Scotland; strong from the South-Eastward on the eastern shores of the North Sea, and moderate from the same quarter in Sweden and Germany. Southerly in the north of Russia, but Northerly in the south of that country, and also in Italy. Subsequently increasing to a gale from North-West on many parts of our western coasts, and shifting to the same quarter in Scotland.

Barometer highest, 30·1 ins. to 30·2 ins. and upwards over the west and south of Russia, and also over the south-western parts of the Spanish Peninsula. Lowest, 29·0 ins. and less in a depression over the west of Scotland; 29·2 ins. and less in another disturbance off the east of England. Former depression subsequently moving south-eastwards, but becoming shallower. New disturbance forming over the Gulf of Genoa.

Monday, 16th November.

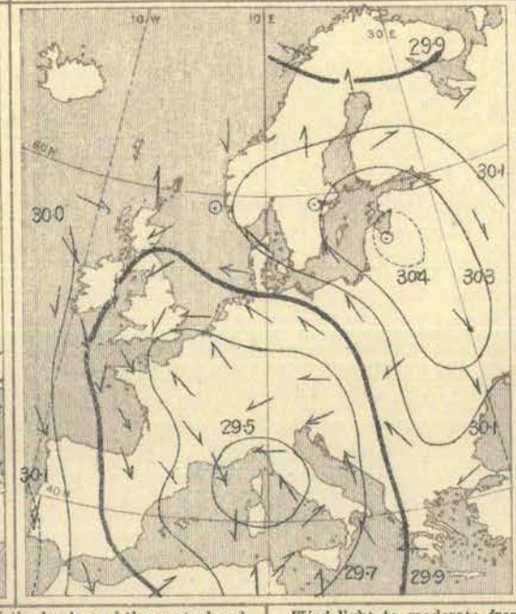
Temperature and Weather. 8 a.m.

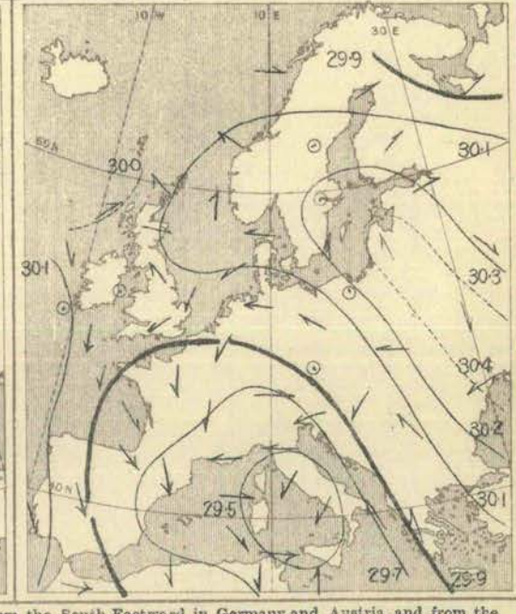


Weather in morning fine in Ireland, the east of England, the Netherlands, and the central and southern parts of Russia. Cloudy or dull in nearly all other parts of Europe, with showers at some of our own northern and central stations, and with steady rain in many parts of France, Spain, and Italy. Snow reported at Bodö. Sky clearing later over Great Britain, but rain continuing at several of the French stations. Heavy rain falling in Italy and Algeria—as much as 2·6 ins. at Naples.

Temperature fallen over the western and northern countries, but risen elsewhere. Morning readings highest, 65° at Malta, and 59° at Lesina, Athens, Patras, and Oran. Lowest, 8° at Moscow, Riga, and Kiev, 11° at Kharkov, and 17° at Odessa; slightly below the freezing point in some parts of Sweden, and also in the east of England. Rising during day to between 47° and 50° over our Islands generally, and to 52° at Belmullet and Scilly, exceeding 50° over France and southern Europe generally, and exceeding 60° in the south of Italy. Frost occurring over the northern and central parts of our Islands at night.

Barometer and Wind. 8 a.m. and 6 p.m.



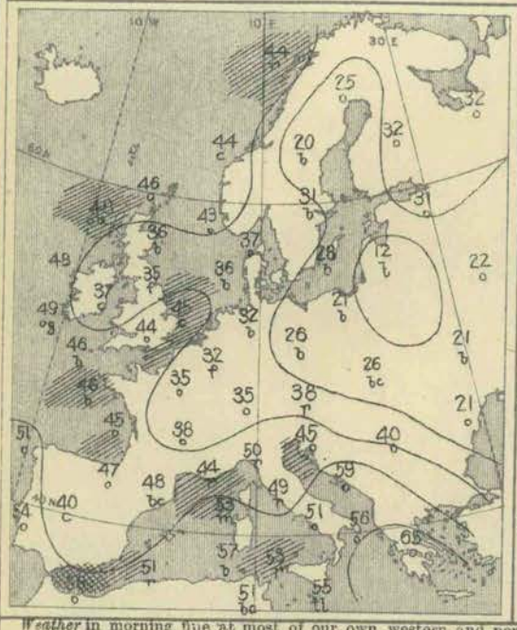


Wind light to moderate from the South-Eastward in Germany and Austria, and from the Eastward or North-Eastward over Denmark, the Netherlands and the eastern parts of Great Britain. Fresh to strong from the Northward and North-Westward over the west of our Islands and the greater part of France and Spain; Southerly (South-West to South-East) over Italy. South-Westerly over northern Russia; variable in the north of Scandinavia. Subsequently shifting to the Southward on our own extreme north and north-west coasts; no decided change occurring elsewhere.

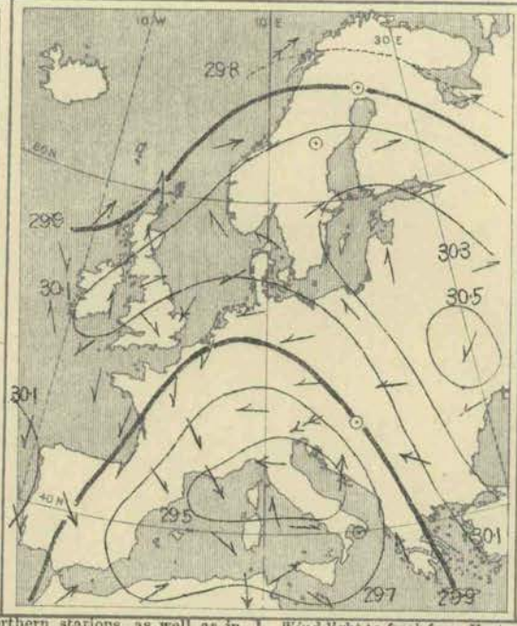
Barometer highest, 30·4 ins. and upwards over the Baltic provinces; 30·0 ins. and upwards in an anticyclone covering nearly the whole of northern and eastern Europe, and also in another system extending from the Atlantic over the western parts of Ireland and Spain. Lowest, 29·5 ins. and less in a depression over northern Italy and the adjacent parts of the Mediterranean; 29·65 ins. and less in a small system over the north of France. Both disturbances subsequently moving South-Eastwards, but new depression beginning to appear off our extreme north-west coasts.

Tuesday, 17th November.

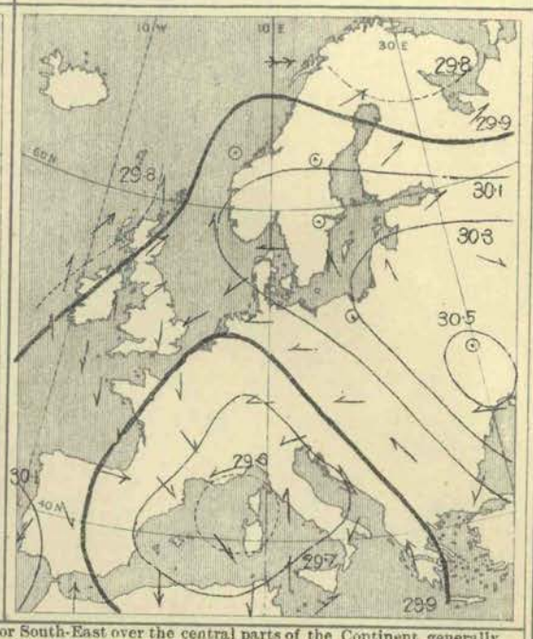
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at most of our own western and northern stations, as well as in Sweden, Denmark, Germany, and the west and south of Russia. Cloudy or dull elsewhere, with mist or fog over England, central France, and the Netherlands, and with rain over Austria, northern Italy, and the south-west of France, as well as at Bodö. Thunderstorm reported at Malta. Rain setting in at night over the west and north of our Islands; lunar halos seen at several of the English and Irish stations.

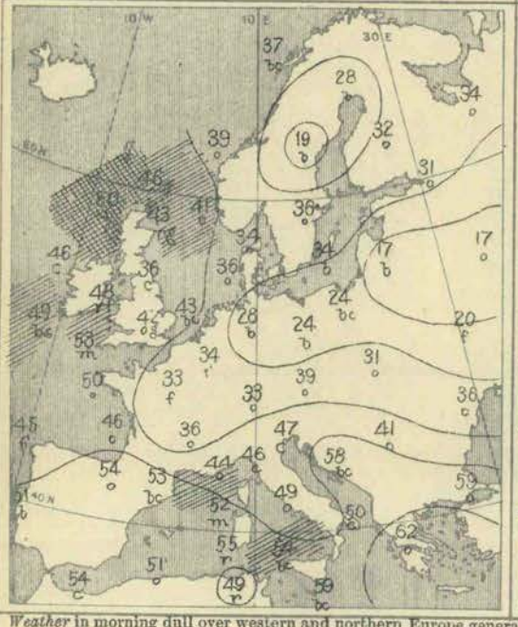
Temperature risen over the greater part of England, and also over Norway, Russia, and Austria, fallen in most other countries. Morning readings highest, 65° at Athens, 59° at Lesina, and 57° at Cagliari; above 50° at the Mediterranean and Adriatic stations generally. Lowest, 12° at Riga, 13° at Odessa, 17° at Memel, and 19° at Kharkov; below the freezing point over Sweden, Russia, and Germany, and very little above it at some of our own central stations. Rising during day to 50° and upwards on several parts of our western coasts, but remaining below 45° over the northern and central parts of England, and below 40° over central France. Exceeding 55° in Spain and Italy, and reaching 63° at Malta.

Wind light to fresh from East or South-East over the central parts of the Continent generally, from North-East or North over England and the north and west of France, from North-West over Spain and the south of France, and from South-West over Algeria and southern Italy. Variable in Ireland, Southerly in Scotland, and South-Westerly in the west of Norway, with a gale at Bodö. Calm in Sweden. Westerly over northern and central Russia. Southerly winds setting in later over the west and north of our Islands generally, and blowing strongly in the extreme north-west.

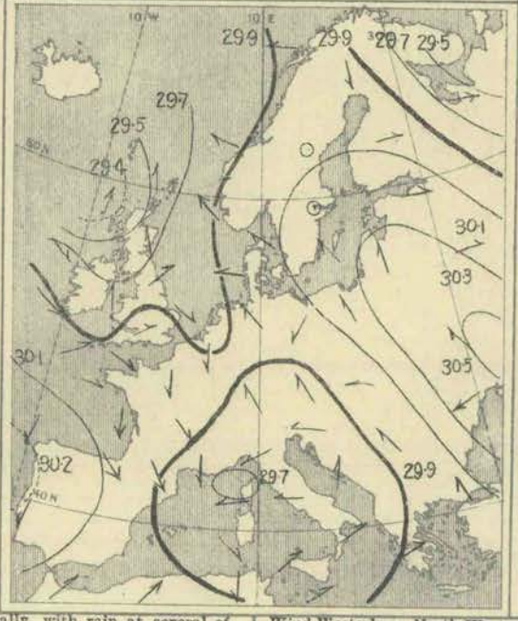
Barometer highest, 30·5 ins. and upwards in the south of Russia, 30·1 ins. and upwards in a large anticyclone covering the greater part of northern and eastern Europe, and extending in the form of a narrow band across England and the east of Ireland. Lowest, 29·4 ins. and less in a depression over the northern parts of the Adriatic; 29·8 ins. and less over the extreme northern parts of Scandinavia and Russia. New depression advancing later towards the west of Scotland, and barometer falling rather decidedly on our western and northern coasts; disturbance over Adriatic partially filling up.

Wednesday, 18th November.

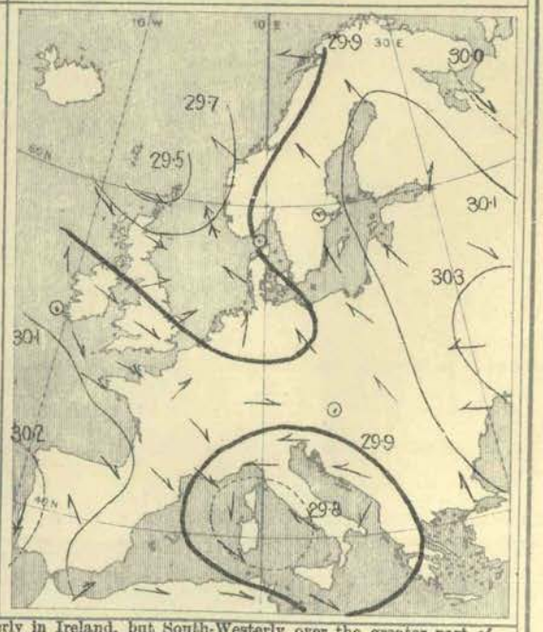
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over western and northern Europe generally, with rain at several of our western and northern stations, and with fog or mist over Belgium, central France, and the south-eastern parts of our Islands. Fine in many parts of Germany, Spain, Italy, and the south of Russia; dull in Austria, with rain at Vienna and Buda-Pesth. Slight rain falling later in nearly all parts of western and southern Europe, but improving weather spreading over our Islands towards evening.

Temperature risen briskly in the west and north of our Islands, and to a less extent at the Baltic stations; fallen elsewhere. Morning readings highest, 62° at Athens, 60° at Patras, and 59° at Malta; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations, and also in the extreme south-west of our Islands. Lowest, 15° at Kharkov, 17° at Moscow and Riga, and 19° at Hernösand; below the freezing point over nearly the whole of Sweden, Russia, and Germany. Rising during day to 50° and upwards at several of our own western and northern stations, and also in the west and south of France; exceeding 60° in the south of Italy. Frost occurring in many parts of our Islands at night.

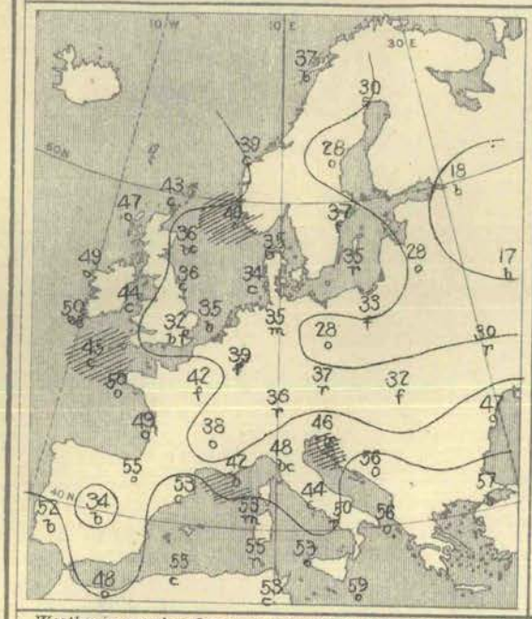
Wind Westerly or North-Westerly in Ireland, but South-Westerly over the greater part of England, and Southerly in Scotland; fresh or strong in force on our extreme north-west coasts. Light from the North-Westward in the extreme south-east of England, and also over the greater part of France; Northerly over the Spanish Peninsula. Easterly or South-Easterly over Austria, Germany, Denmark, and Norway, with a gale at Skudesnaes; Westerly in northern Russia. South-Westerly over the south of Italy. Subsequently veering to the North-Westward on our western and northern coasts generally.

Barometer highest, 30·5 ins. and upwards in the south of Russia; 30·1 ins. and upwards in an anticyclone covering nearly the whole of Russia and the south of Sweden, and also in another system lying over the Spanish Peninsula. Lowest, 29·4 ins. and less in a depression lying off the north-west of Scotland; 29·6 ins. and less in another disturbance over the extreme north of Russia; 29·8 ins. and less in a third lying over northern Italy and the adjacent parts of the Adriatic and Mediterranean. Depression off Scotch coasts subsequently moving north-eastwards, and barometer rising over western Europe generally.

Thursday, 19th November.

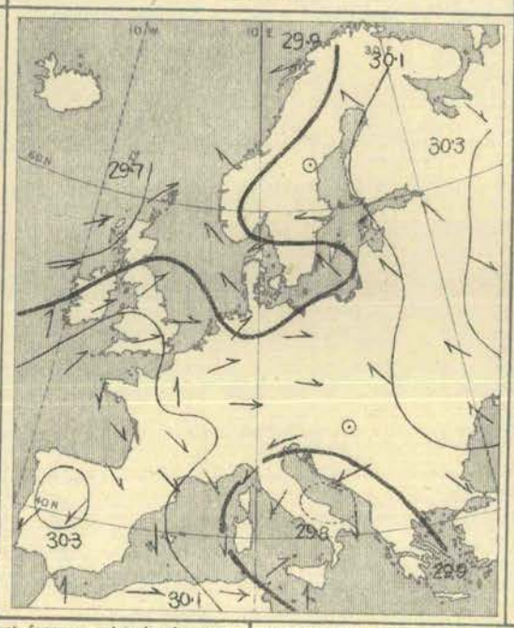
Temperature and Weather.

8 a.m.

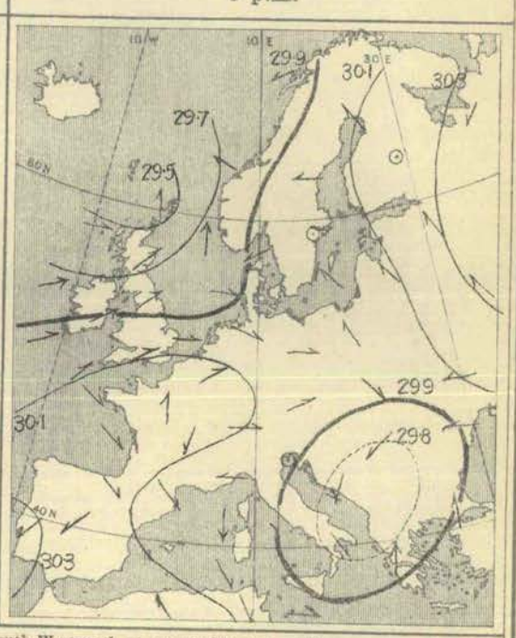


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but foggy or misty in the east and south-east of England, and dull on our extreme western coasts. Dull in most of the continental countries, with fog or mist at many of the central stations; rain falling in several parts of Germany, Italy, and the south of Russia, and snow at Breslau, as well as at Haparanda. Rain falling later over western Europe generally, but amounts mostly slight; snow reported at Wick and also at Hernösand.

Temperature fallen several degrees in our Islands, but changed irregularly elsewhere. Morning readings highest, 59° at Malta, 57° at Constantinople, and 56° at Lesina and Brindisi; above 50° at the Mediterranean, Adriatic, and Spanish coast stations generally, and just touching that point at Valencia (Ireland). Lowest, 17° at Moscow, 18° at St. Petersburg, 19° at Kharkov, and 26° at Archangel; below the freezing point in many parts of northern and eastern Europe, and also over central England. Rising during day to 50° and upwards at many of our western and southern stations; exceeding 55° over southern Europe generally, and exceeding 60° in the south of Italy.

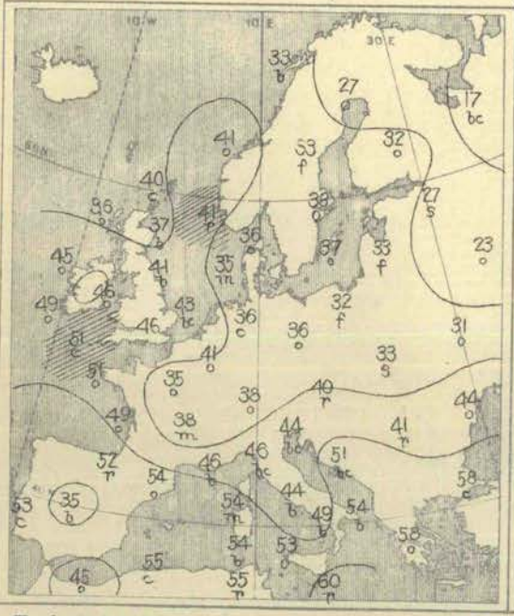
Wind light to fresh from the South-Westward on our western and northern coasts, and from the South-Eastward over Scandinavia and western Russia. Light from the Westward over the greater part of England, the Netherlands, and Germany; from the North-Westward in France, and from the North-Eastward over Italy and the Spanish Peninsula. Increasing later to a gale from the South-Westward in the Hebrides, but wind subsequently lulling and veering to the Westward on some parts of our western coasts.

Barometer highest, 30·4 ins. in the south of Russia; 30·1 ins. and upward in an anticyclone covering the whole of that country, and also in another system lying over Spain, France, and the southern and central parts of England. Lowest, 29·7 ins. and less in a depression lying off our extreme north-west coasts; 29·8 ins. and less in a small system lying off the south-west of Denmark, and also in another disturbance over the Adriatic. Depression in north-west subsequently travelling north-eastwards, and barometer rising on our extreme western coasts. Continental depressions both moving eastwards.

Friday, 20th November.

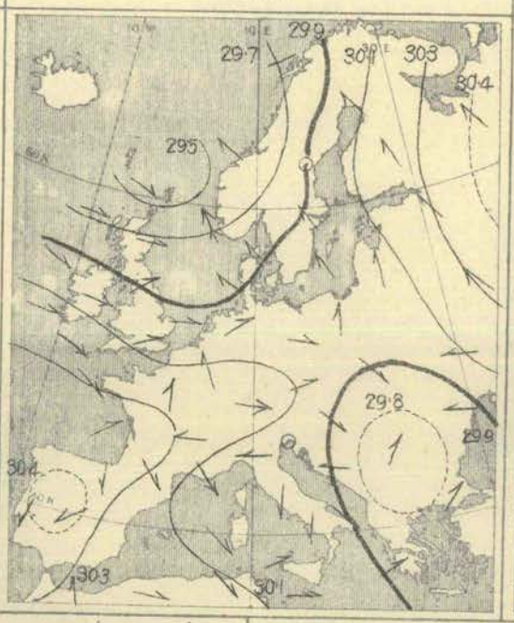
Temperature and Weather.

8 a.m.

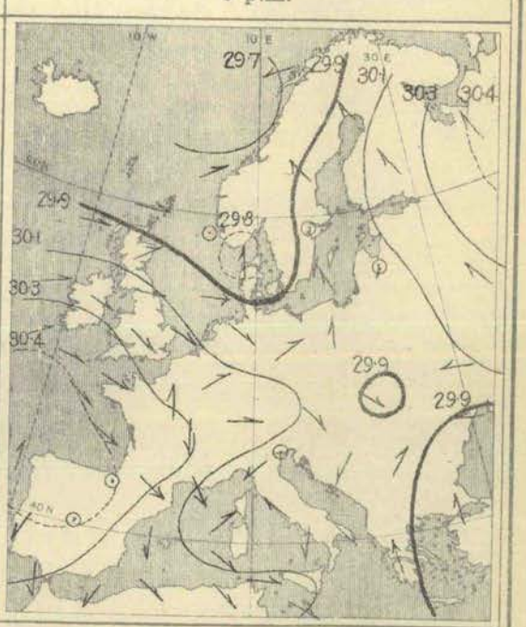


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the United Kingdom generally, but dull on our extreme western coasts. Cloudy or dull in most of the continental countries, with fog in many places, rain at some of the Austrian stations and at Biarritz, and snow at St. Petersburg and Lemberg. Slight showers falling later at several of our own western and northern stations, larger amounts of rain in some parts of France and Germany, and snow in Sweden.

Temperature fallen in west and north of our Islands, and also in Italy, risen in most other localities. Morning readings highest, 60° at Malta, 58° at Athens and Constantinople, and 56° at Patras; above 50° at the Mediterranean and Spanish coast stations generally, as well as over the western parts of the English Channel. Lowest, 17° at Archangel, 23° at Moscow, 27° at Haparanda and St. Petersburg, and 28° at Kharkov. Rising during day to 50° and upwards in the north of Scotland, as well as at several of our western and southern stations; exceeding 55° in the south of France, and exceeding 60° over Spain and southern Italy. Frost occurring over the central and south-eastern parts of England at night.

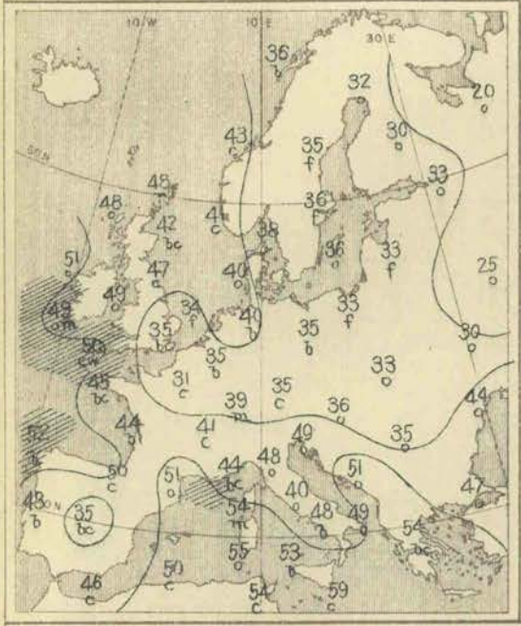
Wind light to fresh from the Westward over our Islands, and also in Germany; South-Easterly over Russia, Denmark, and Scandinavia, with a gale at Skudesnaes. Northerly or North-Westerly over Austria, Italy, and the west and south of France; North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward over England; shifting to the Westward on the eastern shores of the North Sea.

Barometer highest, 30·4 ins. and upwards in an anticyclone over northern Russia, and also in another system over Spain. Lowest, 29·5 ins. and less in a depression lying to the northward of our Islands; 29·8 ins. and less in another disturbance over south-eastern Europe; 30·0 ins. and less in a third system over the Gulf of Genoa. Depression off our northern coasts subsequently moving away to the north-eastward, but well marked secondary system forming over the Skager Rack. Anticyclone over Spain spreading slowly northwards.

Saturday, 21st November.

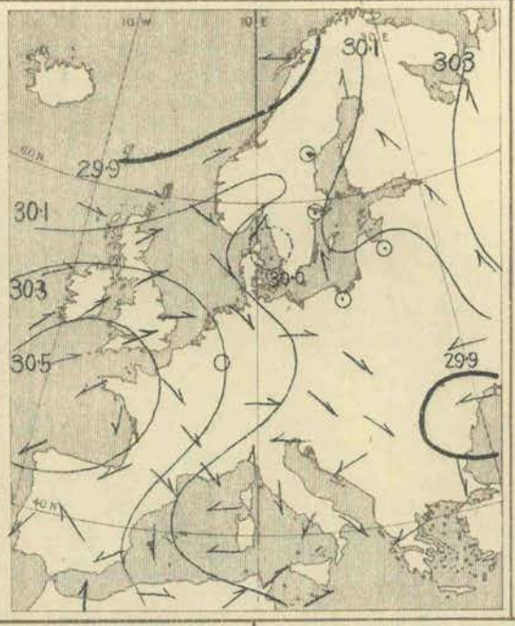
Temperature and Weather.

8 a.m.

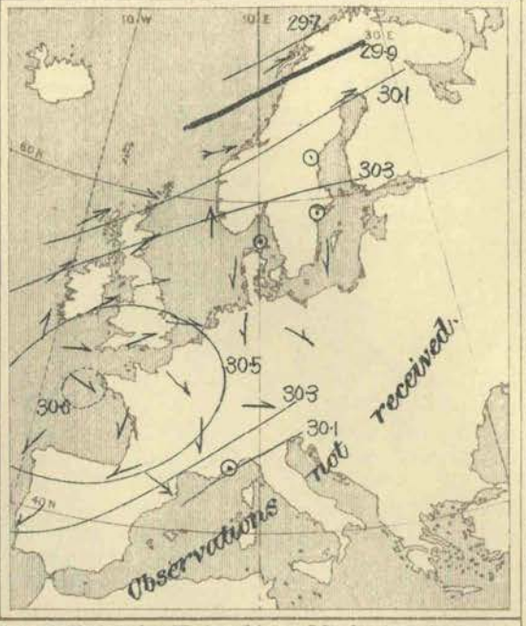


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and southern Europe generally, but with mist or fog in many places; rain falling in the Shetlands, and passing showers on some parts of our extreme north-west coasts. Dull in the eastern and south-eastern countries, with rain in several parts of Austria and eastern Germany. Dull weather spreading later over a considerable portion of the United Kingdom, with slight rain at many of our western and extreme northern stations.

Temperature risen in the west and north of our Islands, and also over the northern parts of the Continent generally, fallen or changed irregularly elsewhere. Morning readings highest, 59° at Malta, 58° at Algiers and La Calle, and 55° at Palma and Cagliari; above 50° at the Mediterranean and Adriatic stations generally, and just touching that point on several parts of our own western and extreme northern coasts. Lowest, 20° at Archangel, 23° at Kharkov, 25° at Moscow, and 30° at Dresden, Kuopio, and Kiev. Rising during day to 50° and upwards in the west and north of our Islands generally, to 55° and upwards in the south of France, and to 63° at Lisbon.

Wind light to moderate from the South-Westward or Westward in our Islands; from the Westward or North-Westward over the Netherlands, Germany, Austria, and the east and south of France, and from the North-Eastward over the Bay of Biscay, the Spanish Peninsula, Italy, and the Adriatic. Light from the Eastward and South-Eastward in Russia; rather variable at the Scandinavian stations. South-Westerly gale setting in later in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in an anticyclone lying over the Bay of Biscay, the north-western parts of France, and the south-west of England; 30·3 ins. and upwards in another system lying over the northern and central parts of Russia. Lowest, 29·9 ins. and less in a large but somewhat shallow depression lying off the west of Norway, and also in a smaller disturbance over the Black Sea and the extreme south of Russia; 30·0 ins. and less in a secondary system over the Kattegat. Anticyclone over Bay of Biscay subsequently spreading northwards, and barometer rising over western Europe generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week, when barometrical pressure was high both in Russia and in Portugal, the conditions over western Europe were influenced by a complex depression having two distinct minima, one over Scotland, and the other off the Dutch coasts. In the more eastern countries the wind was chiefly South-Easterly, but on the west coasts of our Islands and France it was North-Westerly, with a gale in Ireland, the weather being in a very changeable, unsettled state generally.

The depression soon moved away, however, to the southward and gradually dispersed, while the high pressure system over Russia spread westwards over Scandinavia and the North Sea, these changes being followed by a shift of wind to the Northward or North-Eastward in our Islands, with some improvement in the weather. Between the 17th and 19th, however, two depressions of moderate depth skirted our extreme northern coasts, while secondary disturbances advanced directly over the United Kingdom, South-Westerly to North-Westerly winds and unsettled rainy weather being experienced for a time in most districts.

Towards the close of the week the disturbances all passed away, and a large anticyclone spread over western Europe from the south-westward. The weather consequently improved in all but the extreme northern parts of our Islands and the Continent, where it continued to be influenced by some large depressions, which passed eastwards across the northern parts of Scandinavia.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	7·2	− 3·4	13	− 7	SOUTHPORT	12·6	?	22	?
OSWALDKIRK (Yorkshire)	20·7	+10·2	36	+ 17	MANCHESTER (Oldham Road)	4·8*	?	8*	?
WORKSOP	11·9	+ 1·9	21	+ 3	COLWYN BAY	18·8	?	32	?
THURCASTON (Leicestershire)	21·2	+10·2	37	+ 18	NEWQUAY	19·8	+ 3·8	32	+ 5
MARGATE	18·4	+ 4·7	31	+ 9	TORQUAY	21·5*	+ 8·0	35*	+ 12
WESTBOURNE (Sussex)	23·0*	+11·0	38*	+ 18	ARLEY COTTAGE (County Cavan)	18·6	+ 4·1	33	+ 7
BRIGHTON	23·7	+10·2	39	+ 16	GUERNSEY	18·0*	+ 5·1	29*	+ 9
EASTBOURNE	25·5	+12·5	43	+ 20					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS LTD LITH 63 CARTER LANE

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 48.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 28TH, 1896. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95 only.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 284.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	59	33	48·4	42·8	45·7	6 above	26	+13	0	−18	2118	+175	446	−283
	1. SCOTLAND, EAST	56	34	47·2	40·7	44·0	5 above	19	+ 5	4	−19	2429	+ 98	590	−189
	2. ENGLAND, N.E.	54	37	46·4	41·3	43·9	3 above	16	− 2	2	−15	2688	+151	454	−170
	3. ENGLAND, EAST	49	30	43·0	36·4	39·8	2 below	3	−17	21	+ 1	3023	+ 90	566	−140
	4. MIDLAND COUNTIES	49	30	43·5	38·4	41·0	0 (average)	4	−16	14	− 7	2982	+ 79	571	−156
	5. ENGLAND, SOUTH	51	27	43·0	36·4	39·7	4 below	3	−26	20	+10	3396	+186	349	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	25	47·6	41·3	44·5	3 above	20	+ 1	2	−13	2656	+184	367	−175
	7. ENGLAND, N.W.	52	32	45·9	39·9	42·9	0 (average)	15	− 6	6	− 6	2951	+240	322	−192
	8. ENGLAND, S.W.	51	30	44·4	38·4	41·4	3 below	7	−25	14	+ 7	3280	+248	289	−104
	9. IRELAND, NORTH	55	32	47·9	41·5	44·8	3 above	22	+ 3	1	−13	2789	+186	285	−176
	10. IRELAND, SOUTH	56	30	47·8	41·1	44·5	0 (average)	21	− 8	3	− 9	3218	+242	222	−130
	—CHANNEL ISLANDS	53	32	46·1	39·5	42·8	5 below	16	−31	7	− 5	3861	+346	46	−106

Rainfall.

	DISTRICTS. (See p. 284.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	5	7 less	226	+ 3	51·0	+ 4·3
	1. SCOTLAND, EAST	2	1	6 less	187	+ 4	25·1	− 5·0
	2. ENGLAND, N.E.	3	1	5 less	172	− 1	21·4	− 2·8
	3 ENGLAND, EAST	1	1	5 less	164	− 5	22·1	− 2·0
	4. MIDLAND COUNTIES	2	1	6 less	160	− 5	21·3	− 4·7
	5. ENGLAND, SOUTH	1	less than ½	7 less	150	−10	22·0	− 4·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	12 less	193	+ 2	39·6	− 5·1
	7. ENGLAND, N.W.	1	less than ½	8 less	176	− 3	30·7	− 1·5
	8. ENGLAND, S.W.	2	less than ½	10 less	159	−23	26·6	− 9·5
	9. IRELAND, NORTH	1	less than ½	8 less	203	− 5	35·0	+ 0·6
	10. IRELAND, SOUTH	2	less than ½	8 less	175	−13	30·7	− 4·8
	—CHANNEL ISLANDS	2	less than ½	9 less	178	−15	23·0	− 5·4

Bright Sunshine.

	DISTRICTS. (See p. 284.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	− 1	5	− 4	966	− 73	23	− 2
	1. SCOTLAND, EAST	1	− 8	3	−14	1223	− 23	29	− 1
	2. ENGLAND, N.E.	2	− 7	3	−14	1207	− 37	29	− 1
	3 ENGLAND, EAST	6	− 5	10	−11	1455	− 33	35	− 1
	4. MIDLAND COUNTIES	4	− 5	8	− 9	1303	− 19	32	0
	5. ENGLAND, SOUTH	11	0	19	0	1555	− 2	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	− 2	12	− 4	1311	− 3	31	0
	7. ENGLAND, N.W.	3	− 4	5	− 8	1230	+ 19	32	+ 1
	8. ENGLAND, S.W.	10	− 2	17	− 4	1692	+ 87	40	+ 2
	9. IRELAND, NORTH	6	− 6	11	−11	1185	− 47	28	− 1
	10. IRELAND, SOUTH	10	− 3	18	− 6	1385	− 14	33	0
	—CHANNEL ISLANDS	11	+ 1	18	+ 2	1868	+ 21	45	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was cloudy or dull during the greater part of the week, but mostly very dry. Much fog prevailed over England during the earlier days of the period, but towards its close both the cloud and fog dispersed, and Saturday was very fine and bright.

Temperature was considerably in excess of the mean in Scotland, England N.E., and Ireland N., and just equal to it in the Midland counties, England N.W., and Ireland S. In the other districts there was again a deficit. The highest of the maxima, which were recorded on the 22nd, ranged from 59° in Scotland N., and 56° in Scotland E. and Ireland S., to 49° in England E. and the Midland counties. The lowest of the minima were registered either on the 27th or 28th, and ranged from 25° in Scotland W. and 27° in England S. to 34° in Scotland E. and 37° in England N.E.

Rainfall was much less than the mean in all districts, but heavy (locally) at Stornoway.

Bright Sunshine was very deficient generally, but just equalled the normal in England S., and slightly exceeded it in the Channel Islands. The percentage of the possible amount of duration ranged from 19 in England S. and 18 in the Channel Islands and Ireland S., to 5 in Scotland N., England N.W., and to 3 in Scotland E. and England N.E.

Barometer and Wind.—During the whole of this period the distribution of pressure over our Islands was anticyclonic. The centre of the system moved gradually from the southward to the extreme north, the wind consequently changing slowly from W. to E. Towards the end of the week the Easterly wind increased greatly in force in the more southern districts, and attained the force of a slight gale on some parts of the Channel coasts.

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II.—DATA from which the SUMMARY on page 283 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	36	48·4	42·3	45·4	+ 4·4	24	0	5	0·28	−0·71	*	*	*	*
	Stornoway	51	40	48·1	43·9	46·0	+ 5·0	28	0	3	2·22	+1·07	2·0	− 4·9	4	−11
	Wick	53	37	49·4	43·1	46·3	+ 6·1	30	0	2	0·06	−0·59	*	*	*	*
	Lairg ℌ	59	36	49·5	41·8	45·7	+ 8·3	27	1	1	0·01	−0·79	*	*	*	*
	Glencarron ℌ	52	38	47·5	42·2	44·9	+ 5·8	20	0	4	0·82	−1·45	*	*	*	*
	Fort Augustus ℌ	53	38	48·5	43·7	46·1	+ 6·1	29	0	1	0·04	−1·05	0·0	− 2·2	0	− 5
	Fort William ℌ	51	33	47·7	42·6	45·2	+ 5·4	22	0	2	0·30	−1·68	5·5	+ 1·7	11	+ 4
1. SCOTLAND, E.	Nairn	56	39	50·1	43·6	46·9	+ 7·7	34	0	1	0·10	−0·42	*	*	*	*
	Aberdeen	56	37	47·1	39·9	43·5	+ 3·4	19	6	3	0·11	−0·68	1·4	− 8·8	3	−17
	Braemar ℌ	53	34	46·3	38·5	42·4	+ 6·1	18	10	1	0·06	−0·72	3·8†	−1·7†	8†	− 3†
	Ochtertyre ℌ	52	38	46·7	41·7	44·2	+ 5·2	17	1	1	0·03	−0·98	*	*	*	*
	Leith	55	37	48·3	42·7	45·5	+ 4·2	25	0	2	0·09	−0·41	*	*	*	*
	Marchmont ℌ	49	34	44·4	38·0	41·2	+ 2·3	7	16	2	0·29	−0·56	0·0	−10·2	0	−20
2. ENGLAND, N.E.	Alnwick Castle	54	41	48·0	42·3	45·2	+ 4·9	22	0	2	0·16	−0·66	*	*	*	*
	Durham	52	38	46·0	39·1	42·6	+ 2·6	16	8	3	0·16	−0·45	3·2	− 7·0	6	−14
	Shields	53	40	47·4	41·4	44·4	+ 3·5	19	2	2	0·13	−0·43	*	*	*	*
	Scarborough ℳ	49	40	45·7	41·7	43·7	+ 1·9	13	1	3	0·09	−0·53	*	*	*	*
	York	50	37	46·1	41·3	43·7	+ 3·0	15	2	1	0·06	−0·42				
	Spurn Head	47	38	45·0	41·9	43·5	+ 2·6	11	0	4	0·09	−0·41	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	48	33	44·0	37·9	41·0	+ 0·2	6	16	1	0·06	−0·56	6·6	− 3·7	12	− 7
	Yarmouth	47	33	43·1	36·7	39·9	− 1·9	3	19	1	0·03	−0·63	*	*	*	*
	Geldeston	48	34	43·3	37·8	40·6	− 1·3	4	16	1	0·06	−0·54	5·1	− 7·2	9	−14
	Cambridge	49	30	43·3	34·6	39·0	− 1·9	4	27	1	0·05	−0·38	4·3	− 7·6	8	−14
	Rothamsted	49	30	41·4	35·1	38·3	− 2·5	0	26	2	0·04	−0·56	6·3	− 6·5	11	− 9
4. MIDLAND COUNTIES	Harrogate ℳ	48	37	43·8	40·8	42·3	+ 2·5	7	3	3	0·08	?	0·0	?	0	?
	Bawtry (Hesley Hall)	49	34	44·0	39·1	41·6	+ 0·6	6	12	3	0·10	−0·37	*	*	*	*
	Loughborough	48	33	43·7	39·1	41·4	− 0·4	5	11	3	0·09	−0·38	*	*	*	*
	Stamford (Duddington)	48	33	43·4	37·4	40·4	0·0	4	17	2	0·06	−0·61	*	*	*	*
	Cheadle ℳ	46	33	43·1	37·8	40·5	+ 0·7	3	16	2	0·03	−0·61	*	*	*	*
	Shirley (near Solihull)	48	32	44·9	38·3	41·6	+ 0·6	8	15	2	0·03	?	*	*	*	*
	Churchstoke ℳ	48	33	43·9	38·0	41·0	+ 0·2	5	16	2	0·04	−0·72	3·5	− 6·1	6	−11
	Hereford ℳ	48	33	43·4	38·6	41·0	− 0·8	4	13	1	0·02	−0·61	*	*	*	*
	Cirencester	46	30	42·1	37·3	39·7	− 0·8	0	17	2	0·04	−0·66	9·4	− 0·6	17	− 1
	Oxford	48	32	42·6	37·6	40·1	− 1·9	2	16	1	0·01	−0·57	9·1	− 1·1	16	− 4
5. ENGLAND, S.	London	48	32	42·7	36·4	39·6	− 2·7	2	20	0	—	−0·48	4·3†	− 1·8†	8†	− 4†
	North Foreland	49	30	43·0	35·7	39·4	− 4·1	3	23	1	0·06	?	*	*	*	*
	Dungeness	49	29	42·6	35·3	39·0	− 4·4	2	24	2	0·02	−0·72	*	*	*	*
	Hastings (St. Leonards)	51	30	42·5	35·5	39·0	− 4·5	1	23	0	—	−0·71	14·5	+ 0·6	25	+ 2
	Southampton	50	27	44·5	36·8	40·7	− 2·5	7	20	0	—	−0·70	9·9	− 2·1	17	− 4
	Hurst Castle	48	34	43·0	38·6	40·8	− 4·1	3	13	0	—	−0·68	*	*	*	*
	Stowell ℳ	49	29	42·4	36·4	39·4	− 3·6	1	20	2	0·03	−0·82	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	31	49·2	41·3	45·3	+ 3·5	26	2	3	0·14	−1·98	*	*	*	*
	Glasgow	51	39	47·4	43·3	45·4	+ 5·9	24	0	1	0·01	−0·89	0·9	− 3·1	2	− 7
	Ardrossan	51	36	46·9	42·4	44·7	+ 2·5	19	0	1	0·01	−0·82	*	*	*	*
	Glenlee ℌ	51	25	46·4	38·3	42·4	+ 2·6	18	10	1	0·01	−0·49	*	*	*	*
	Douglas (Isle of Man)	54	33	48·1	41·3	44·7	+ 1·0	22	2	1	0·03	−1·09	11·7	− 0·5	21	− 2
7. ENGLAND, N.W.	Stonyhurst	48	36	44·7	39·6	42·2	+ 1·0	11	7	2	0·03	−0·97	2·1	− 6·2	4	−11
	Blackpool ℳ	50	32	47·1	38·6	42·9	+ 0·9	21	10	0	—	−0·75	5·0	− 2·2	9	− 6
	Manchester (Prestwich)	48	35	44·7	39·3	42·0	+ 1·0	8	8	1	0·01	−0·79	1·2	?	2	?
	Liverpool Obsy. (Bidston)	52	36	45·7	40·6	43·2	+ 1·0	14	4	0	—	−0·65	*	*	*	*
	Llandudno ℳ	52	36	47·1	39·8	43·5	− 1·0	20	6	0	—	−0·74	*	*	*	*
	Holyhead	52	37	46·1	41·3	43·7	− 2·1	15	2	3	0·04	−0·83	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	33	44·9	37·4	41·2	− 1·0	8	18	2	0·04	−1·12	*	*	*	*
	Pembroke	50	35	45·6	40·6	43·1	− 3·0	14	4	2	0·06	−0·88	25·9	+14·5	45	+24
	Clifton	47	32	43·5	38·7	41·1	− 0·7	4	13	1	0·01	−0·77	*	*	*	*
	Arlington (N. Devon)	47	31	42·3	37·0	39·7	− 3·1	1	18	3	0·11	−1·29	*	*	*	*
	Cullompton ℳ	49	32	43·8	37·2	40·5	− 3·3	5	18	2	0·02	−0·78	10·9	+ 1·4	19	+ 2
	Falmouth	51	32	45·5	39·4	42·5	− 4·5	14	7	2	0·04	−1·18	2·5	−11·2	4	−19
	Plymouth	49	30	45·4	38·7	42·1	− 3·3	15	9	2	0·04	−0·85	5·5	− 6·2	9	−12
	Prawle Point	50	33	44·0	38·4	41·2	− 4·8	6	14	1	0·02	−0·68	*	*	*	*
9. IRELAND, N.	Malin Head	52	29	47·7	43·9	45·8	+ 2·4	27	0	0	—	?	*	*	*	*
	Londonderry	53	34	48·0	42·0	45·0	+ 2·6	21	0	3	0·03	−0·92	*	*	*	*
	Edenfel (Omagh)	52	32	46·3	41·4	43·9	+ 4·1	16	2	2	0·03	−0·77	*	*	*	*
	Belmullet	53	33	49·6	40·7	45·2	+ 6·8	28	4	1	0·03	−1·34	*	*	*	*
	Markree Castle	52	33	47·7	40·7	44·2	+ 2·4	21	4	0	—	−0·90	6·7	− 4·3	12	− 8
	Armagh	52	32	47·6	40·7	44·2	+ 3·2	21	4	1	0·01	−0·61	5·0	− 7·2	9	−13
	Donaghadee	55	40	48·4	42·3	45·4	+ 1·9	24	0	2	0·02	−0·59	*	*	*	*
	Edgeworthstown	53	34	48·2	40·6	44·4	+ 3·4	23	4	1	0·04	−0·76	*	*	*	*
10. IRELAND, S.	Dublin	54	42	49·0	43·8	46·4	+ 2·6	31	0	2	0·02	−0·45	6·9	− 7·4	12	−15
	Parsonstown	56	32	47·7	39·6	43·7	+ 1·5	22	7	0	—	−0·77	12·8	− 0·5	23	0
	Kilkenny	51	30	47·3	38·9	43·1	− 1·3	21	9	1	0·03	−0·58	*	*	*	*
	Roche's Point	51	38	47·7	43·0	45·4	− 0·1	24	0	4	0·05	−1·10	*	*	*	*
	Valencia	52	36	48·4	42·3	45·4	− 1·2	24	0	2	0·07	−1·18	11·6	− 0·2	20	− 2
	Killarney	54	28	47·3	40·1	44·0	− 0·4	22	5	0	—	?	*	*	*	*
	Foynes	54	?33	? 46·7	?40·2	? 43·5	? − 0·3	? 18	?5	2	0·02	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	53	37	47·7	41·6	44·7	− 3·7	21	1	2	0·02	−0·93	3·0	?	5	?
	Jersey	52	32	44·4	37·4	40·9	− 6·1	7	18	2	0·04	−0·86	17·3	+ 6·2	29	+11

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

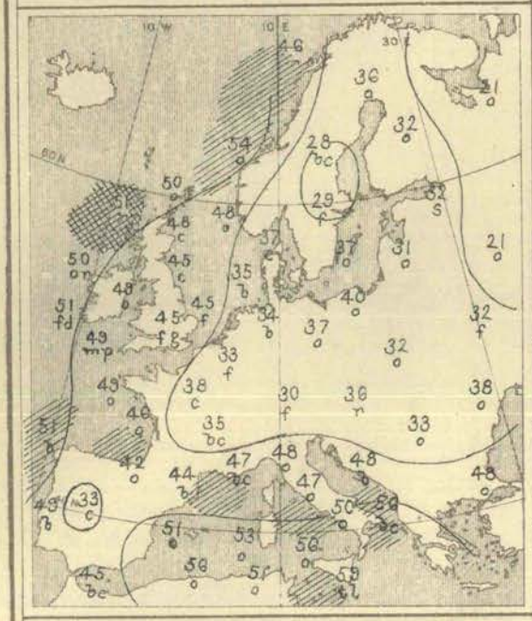
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College Westminster. For additional Reports of Sunshine see last page.

Sunday, 22nd November.

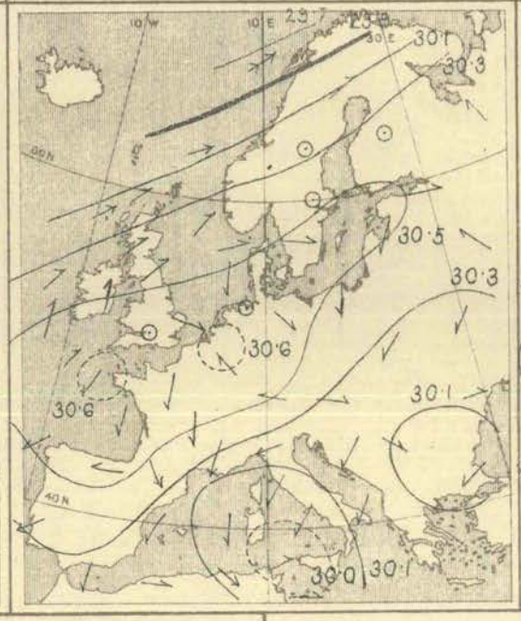
Temperature and Weather.

8 a.m.

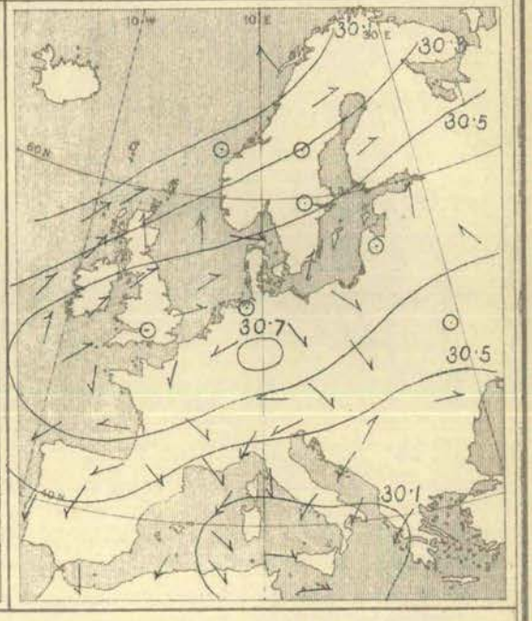


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in several parts of north Germany, very dull as a whole elsewhere; foggy and gloomy over Belgium, Holland, and the south-eastern counties of England, rainy at Bodö and in the west of Ireland, as well as at Tunis; thunderstorm prevalent at Malta. Heavy rain later both at Bodö and Stornoway, and slight showers in the west and south-west of our Islands generally; fog continuing at our southern and eastern stations, rain at Algiers.

Temperature risen over Great Britain and France. Morning readings highest, 59° at Malta, and ranging between that value and 48° on the Mediterranean coasts generally; 51° to 50° on our extreme west and northern coasts, 54° at Christiansund. Lowest, 21° at Moscow and Archangel, 28° at Kharkov; 30° at Münster and Munich, 38° at Paris; above 43° all over our Islands. Touching 56° in several parts of Scotland and Ireland later, and 55° at Lorient; not exceeding 50° in any part of France.

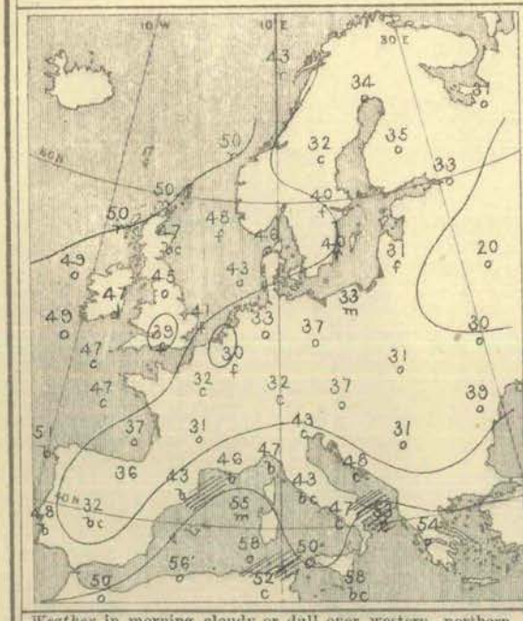
Wind (1) light and variable (mainly anticyclonic) over France, England, Germany, and the Baltic; (2) South-Westerly over the northern parts of the British Islands and the west of Norway, and blowing a moderate gale in the latter regions; (3) Easterly to Northerly over southern Europe, North-Westerly over Tunis, Westerly at Malta. Little change later.

Barometer highest, 30·6 ins. to 30·4 ins. in a broad but rather complex high-pressure band stretching from the Atlantic across Ireland, England, the north of France, and the North Sea to the Baltic and the north of Russia. Lowest, below 29·8 ins. over Finmark on the one hand, and below 30·0 ins. in a depression over the eastern part of the Mediterranean on the other. Rising in most places later, but especially over northern Europe.

Monday, 23rd November.

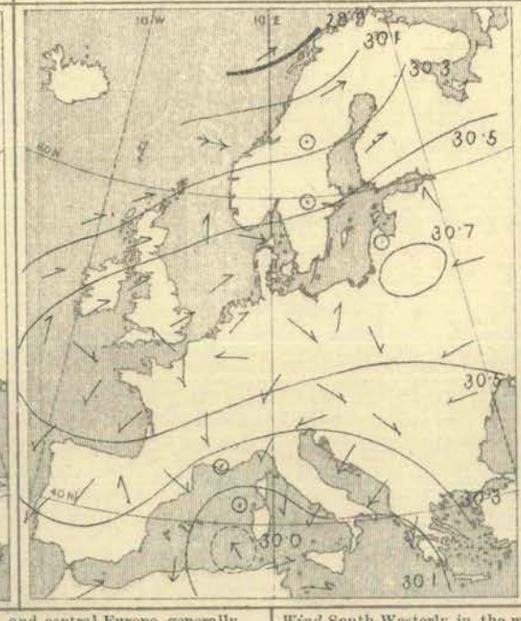
Temperature and Weather.

8 a.m.

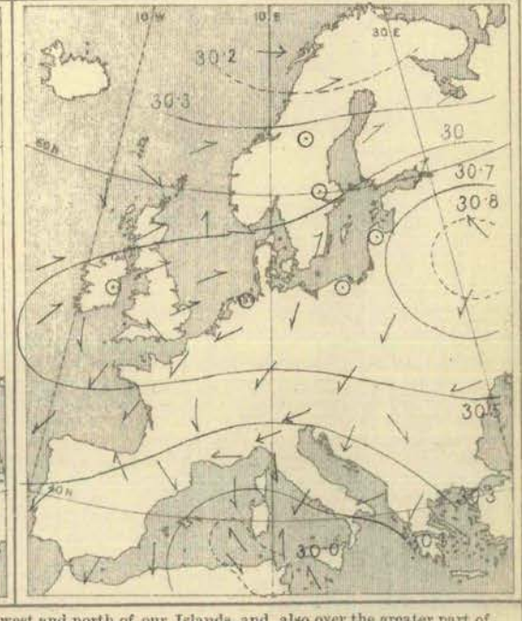


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western, northern, and central Europe generally, with mist or fog in many places, rainy in the Hebrides, the Shetlands, and the west of Norway. Fine in the north-east of Scotland, and also over southern Europe. Rain falling later in the north of Scotland and west of Norway—small amounts some of our western stations, mainly mists or wet fogs. Lunar rainbows and corona seen in the north of Scotland.

Temperature fallen at all but the Russian and Scandinavian stations. Morning readings highest, (1) 58° at Cagliari and Malta, 56° at Algiers, and 55° at Sanguinaire; (2) 52° at Nairn, and 50° at Christiansund, Sumburgh Head, Stornoway, and Wick. Lowest, 20° at Moscow, 21° at Karkov, 28° at Memel and the Helder, 30° at Brussels and Kharkov. Rising later to 50° or a little above it in many parts of Ireland and Scotland, and to between 60° and 68° over Algeria, but remaining below 45° in the east and south-east of England, and below 40° over Belgium, Germany, and central France.

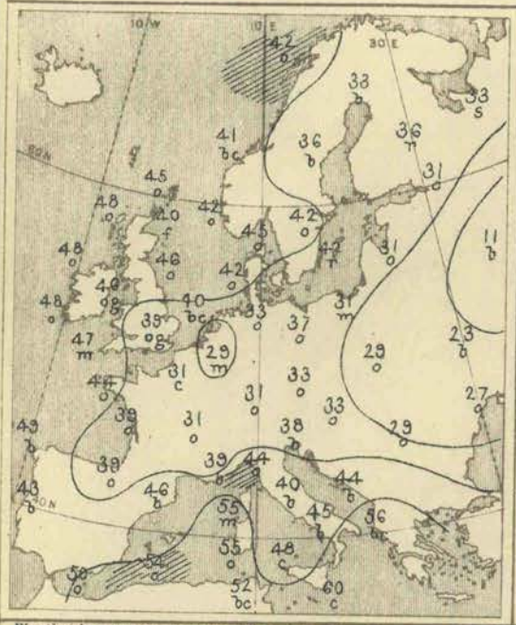
Wind South-Westerly in the west and north of our Islands, and also over the greater part of northern Europe, light or moderate in force generally, but strong to a gale in the west of Norway. Light and variable in the extreme south of England, North-Easterly over the southern parts of the Continent, and strong in force at the Adriatic stations. Light Easterly or North-Easterly breezes setting in later over the English Channel, wind shifting to the Northward in the Shetlands and Hebrides; no important change occurring elsewhere

Barometer highest, 30·6 ins. and upwards in an elongated area stretching from central Russia to the Netherlands and the south-east of England, 30·2 ins. and upwards in an anticyclone embracing all but the extreme northern and southern parts of the Continent. Lowest, 30·0 ins. and less in a depression over the north-west of Norway, and also in another system having its centre between Scandinavia and Tunis. No important change occurring over western Europe during day.

Tuesday, 24th November.

Temperature and Weather.

8 a.m.

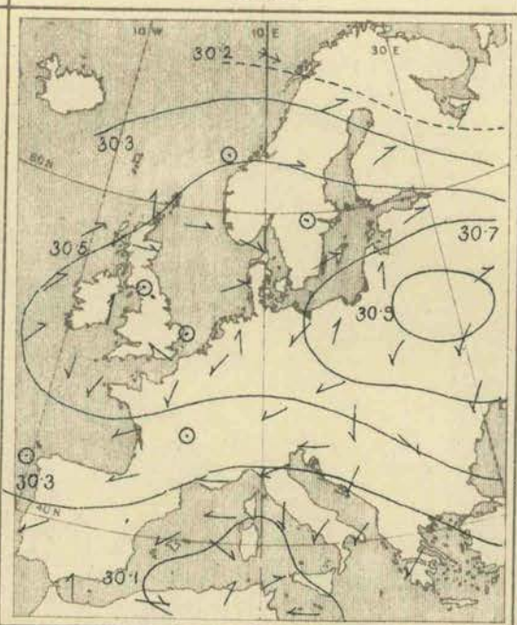


Weather in morning fine over the north of Sweden, central Russia, and over the Mediterranean, but as a whole very dull elsewhere. Snow reported at Archangel, and also at Vienna; fog or haze very prevalent over the British Islands. Much rain later in the north-west of Norway, the Hebrides, and at Memel, very slight misty showers in some of the northern and western parts of the British Islands; fog decreasing over England. Heavy rain over the western parts of Algeria.

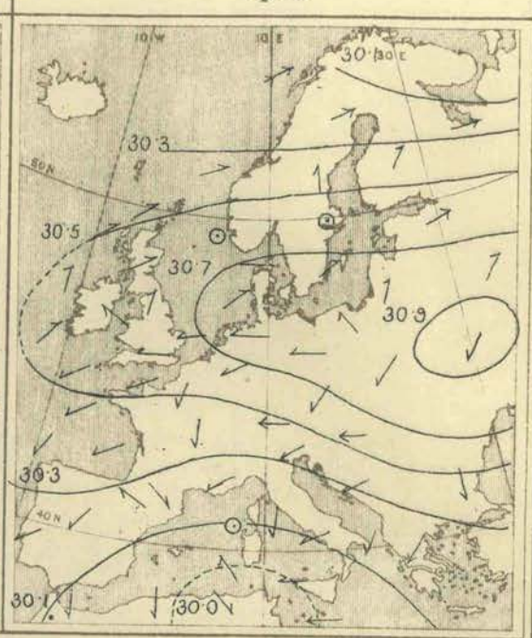
Temperature fallen in many parts of our Islands. Morning readings highest, 60° at Malta, but below 40° at some of the northern Mediterranean stations; 49° at Corunna, 48° in the west of Ireland and at Stornoway, 47° at Skudesnaes. Lowest, (1) 9° Fahr. at Kharkov, 11° at Moscow, 23° at Kiev, 29° at Warsaw; (2) 29° at Brussels, 31° at Paris and Lyons. Rising during day to between 50° and 56° in several parts of Scotland, to 54° at Nice, and to between 60° and 70° over northern Africa, but not touching 45° over the southern half of England, nor 40° over Germany and the north-east of France.

Barometer and Wind.

8 a.m.



6 p.m.



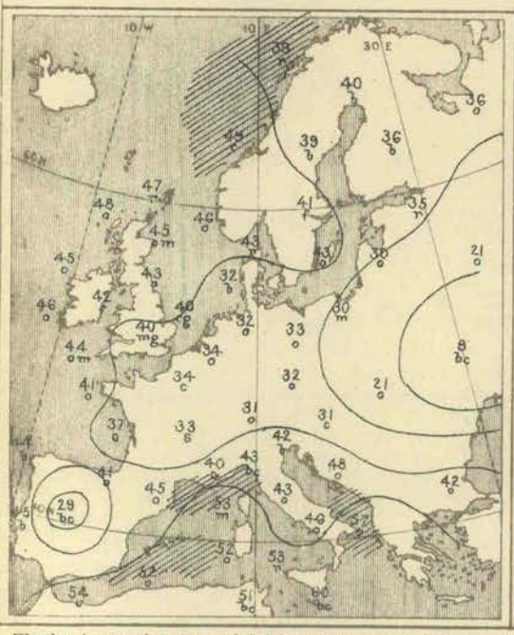
Wind Easterly over all the southern half of Europe—light or moderate in force in most places; South-Westerly at nearly all the more northern stations, and strong in force over the Gulf of Finland; Westerly over the north of Scandinavia, with a gale at Bodö. No important change occurring over north-western Europe during day, but force increasing over the Mediterranean.

Barometer highest, 30·8 ins. and upwards over central Russia; 31·3 ins. and upwards in an anticyclone embracing all but the extreme northern and southern parts of Europe. Lowest, 30·0 ins. and less in two small depressions lying off the coasts of Tunis; 30·2 ins. and less over the extreme northern parts of Scandinavia and Russia. No important change occurring over western Europe during day.

Wednesday, 25th November.

Temperature and Weather.

8 a.m.

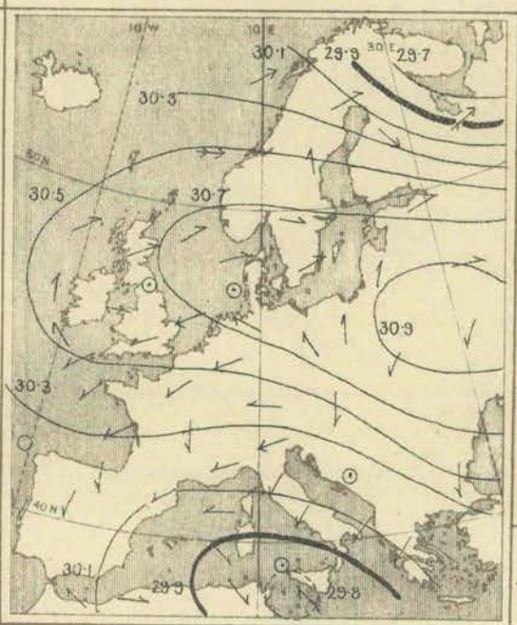


Weather in morning fine and bright over Finland and the north of Sweden on the one hand, and the south of Russia on the other, as well as over the greater part of Spain and Portugal. Very variable over the Mediterranean and France, with snow at Lyons and Turin, overcast and hazy in the British Islands, with some rain at Parsonstown, Sumburgh Head and Bodö. Rain falling later in the Shetland Islands, snow at Lyons; rain over Algeria and the south of Italy also. Weather gloomy but dry over great Britain and Ireland.

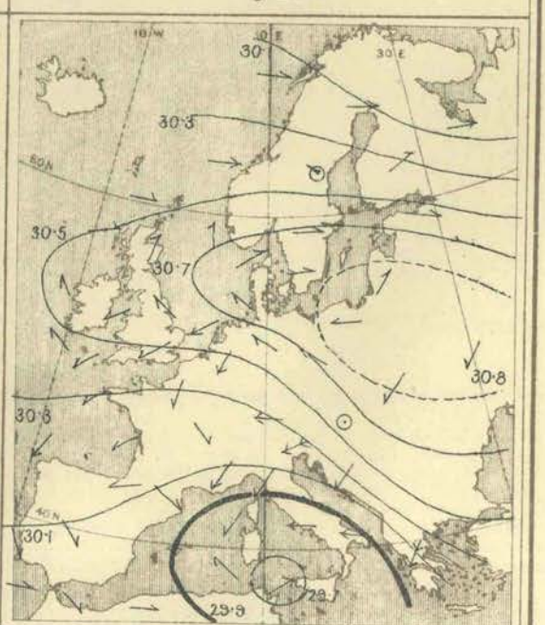
Temperature in morning highest, 60° at Malta, 54° at Algiers, 52° at Cagliari; 49° at Christiansund, 48° at Stornoway and Nairn, and 44° to 46° on the Irish coasts. Lowest, 5° Fahr. at Kharkov, and between that value and 21° over the southern half of Russia generally; 30° at Belfort and Brussels, 33° at Lyons, 34° at Paris. Failing to reach 50° in any part of our Islands later, and to between 60° and 70° at the Algerian stations; not touching 40° at many of the German and French stations.

Barometer and Wind.

8 a.m.



6 p.m.



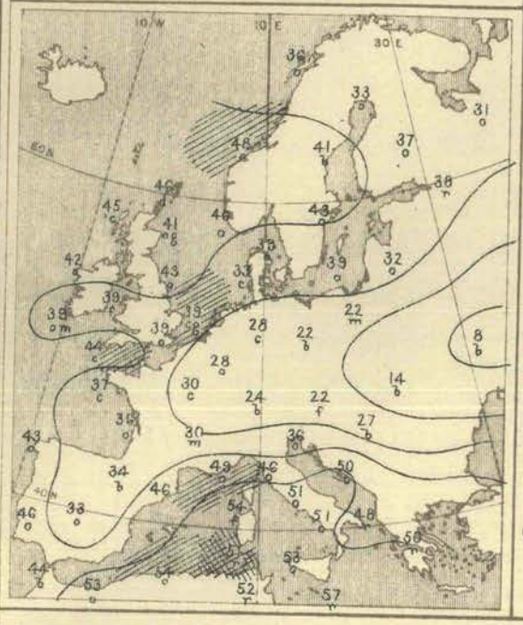
Wind Easterly to North-Easterly over all the southern half of Europe; Southerly to South-Westerly at our own northern stations, South-Westerly to Westerly over northern Europe, and strong to a gale in force on the Norwegian coast and at Archangel. Easterly wind increasing in strength later, especially over the east of England and the English Channel.

Barometer highest, 30·9 ins. and more over the southern half of Russia, and exceeding 30·5 ins. in a well-marked ridge extending thence across central Europe and the North Sea to the British Islands. Lowest, 29·8 ins. and less to 30·0 ins. in a complex depression over the southern side of the Mediterranean, and in another system over the White Sea and the Kola Peninsula. Falling somewhat over western Europe during the day. Mediterranean depression undergoing great modifications later.

Thursday, 26th November.

Temperature and Weather.

8 a.m.

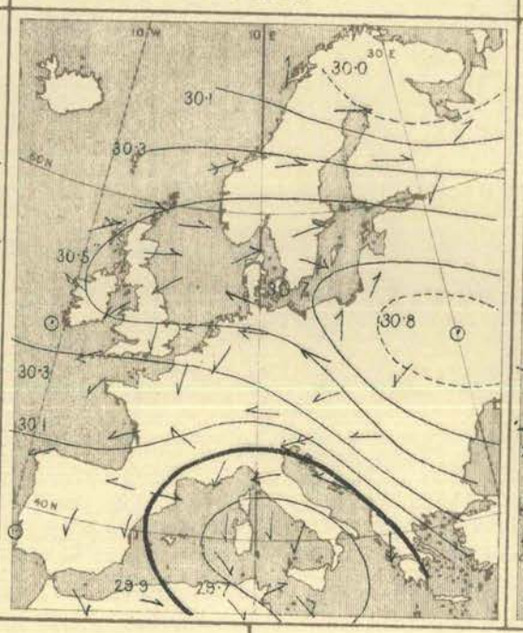


Weather in morning fine and bright over central Europe and southern Russia, cloudy or overcast in most other places; gloomy, but quiet, over the British Islands, very unsettled over the Mediterranean, with rain at several stations. Rain falling in the north-west of Norway and the Shetland Islands, and very rainy, thundery weather prevailing over Greece and other parts of south-eastern Europe.

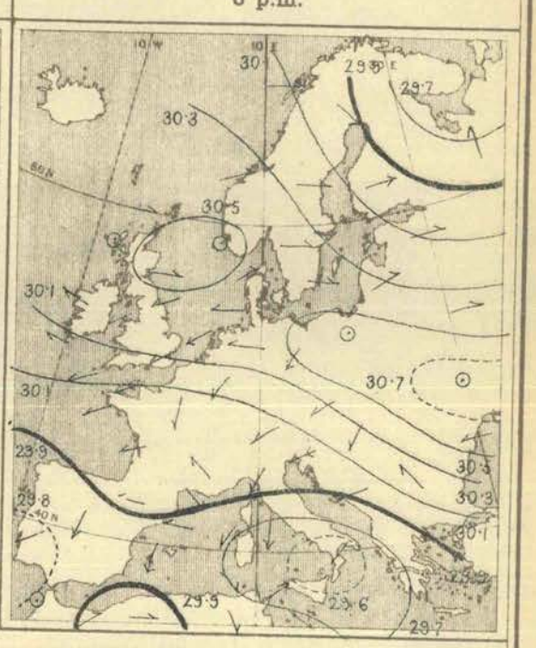
Temperature falling considerably over central Europe, slightly in Scotland, rising over Italy. Morning readings highest, (1) 57° to 50° over the southern parts of the Mediterranean, 49° at Nice; (2) 43° at Christiansund, 46° at Sumburgh Head, 44° at Scilly, 43° at Jersey and Corunna. Rising later to between 45° and 48° in the north of Scotland and the west of Norway, but scarcely exceeding 40° in the south of England, and not exceeding 35° at Paris and 30° at Berlin.

Barometer and Wind.

8 a.m.



6 p.m.



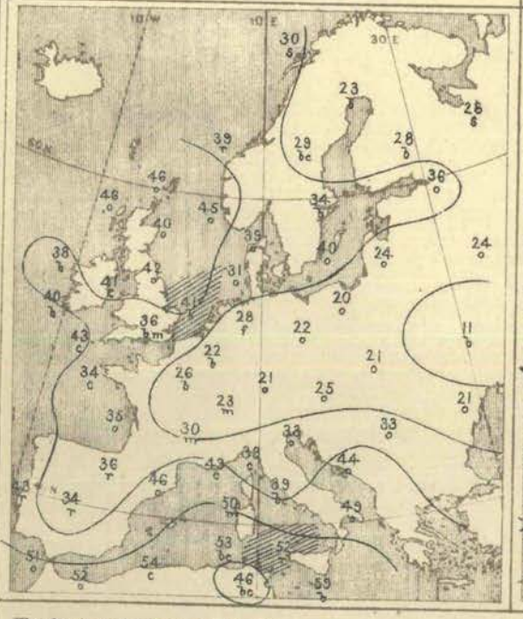
Wind Easterly to North-Easterly over the southern half of Europe generally—blowing a gale at Trieste, and a strong breeze in many other places; nearly calm over central Russia and Scotland; Westerly over northern Europe, and blowing a gale at Christiansund and Ulcaborg. No decided change later.

Barometer highest, 30·8 ins. and more to 30·7 ins. over the south and west of Russia, and exceeding 30·4 ins. in a "ridge," extending thence in a westerly direction across the North Sea and the greater part of the United Kingdom. Lowest, 29·7 ins. and less in a large depression lying over the eastern parts of the Mediterranean, and below 30·0 ins. in another over Lapland and the Kola Peninsula. Gradients very steep over Dalmatia, Greece, and south-eastern Europe as a whole. The northern depression apparently moving south-eastwards later, but barometer falling over France and the British Islands.

Friday, 27th November.

Temperature and Weather.

8 a.m.

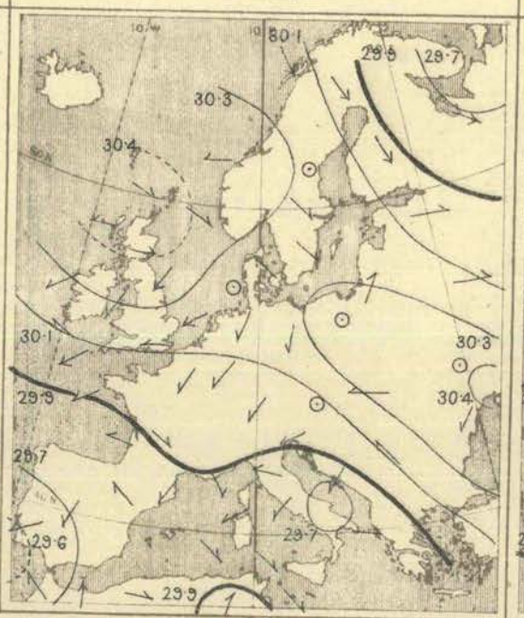


Weather in morning fine and bright over Finland on the one hand, and over the south of Russia on the other, and also over many parts of the British Islands, the Netherlands, and the north-east of France; very dull elsewhere, with rain and snow in the north of Norway, and rain at many of the Mediterranean stations. Cold showers reported later in most parts of Great Britain and the north and west of France.

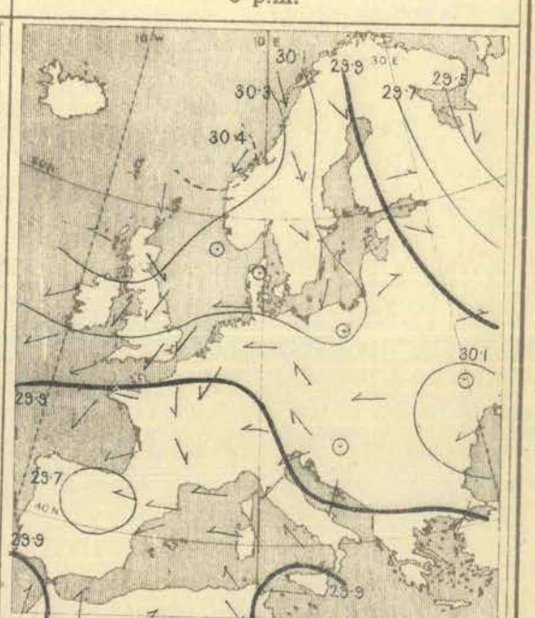
Temperature risen over south-eastern Europe and Morocco, fallen elsewhere. Morning readings highest, (1) 60° at Nemours, 59° at Malta, 54° at Algiers, 51° at San Fernando; (2) 46° at Sumburgh Head and Stornoway, 45° at Skudesnaes, 43° at Malin Head and Scilly. Lowest, 11° at Kiev, 12° at Kharkov, and much below the freezing point over south-eastern, central, and northern Europe generally; (2) 35° at Oxford. Rising later to 48° at some of our north-western stations, and to between 43° and 45° over our southern counties; reaching 52° at Nice, but not touching 40° at Paris, nor 30° at Berlin.

Barometer and Wind.

8 a.m.



6 p.m.

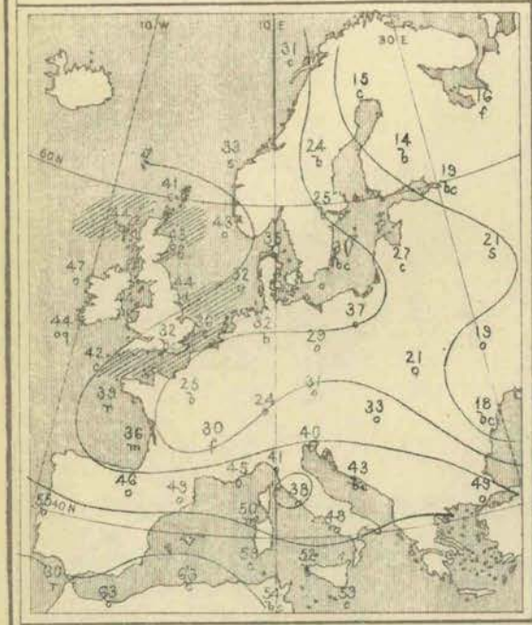


Wind very variable over south-eastern Europe and the Mediterranean, Easterly over central and western Europe, and blowing a fresh to strong breeze from that direction over the English Channel and our east coasts. Very light and variable in Scotland; Westerly to North-Westerly and strong over Lapland, Finland, and the north of Russia. Freshening considerably in the south-east and south of England later, and the Easterly wind spreading northwards to Scotland.

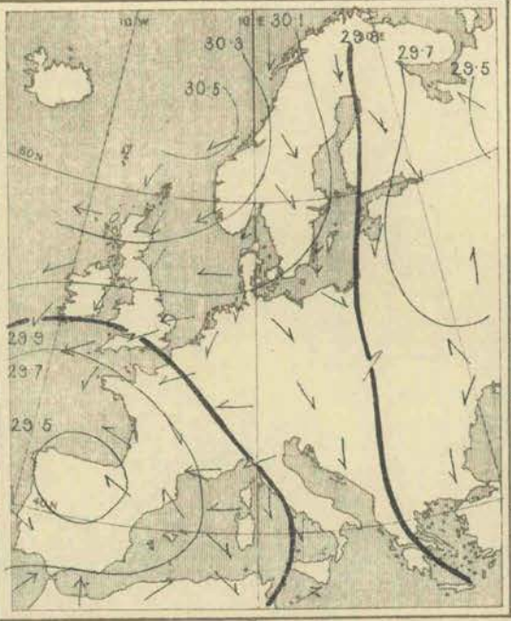
Barometer highest, 30·5 ins. to 30·3 ins. over the southern half of Russia, Poland, and the east of Prussia; 30·4 ins. to 30·3 ins. over the northern parts of our Islands and the greater part of Norway. Lowest, 29·6 ins. and less in a well-marked depression near Lisbon, and about 29·7 ins. in another over the White Sea. The southern depression moving north-eastwards later, and barometer falling decidedly over France, Ireland, and the south of England.

Saturday, 28th November.

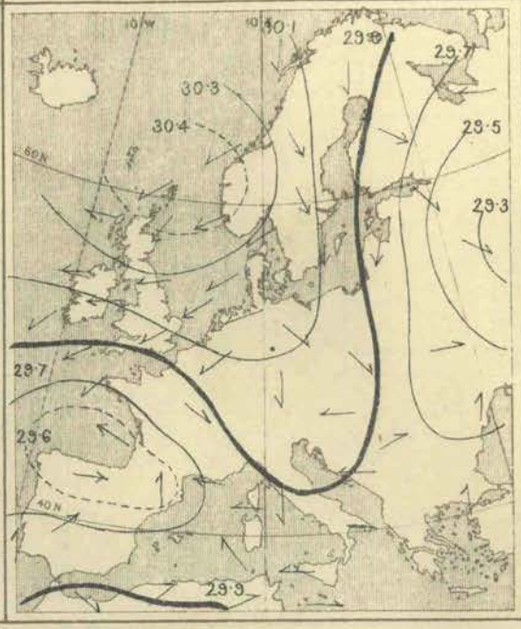
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over northern Europe, the eastern parts of the North Sea, the Netherlands, the south-east of England, and the north-east of France, dull and gloomy elsewhere, with showers of wet snow or cold rain at some of the Channel stations, and at others in the west and north, also at Christiansund, Moscow, and Buda-Pesth. Further falls of snow in several parts of Scandinavia later, and in the west of France, and small amounts both in Scotland and the south-west of England.

Temperature fallen over England. Morning readings highest, 63° at Algiers, and above 50° over the southern side of the Mediterranean and at Lisbon; 44° to 47° in the west and north-west of Ireland, 46° at Ardrossan, 44° at Stornoway. Lowest, 14° to 20° over the northern and 8° to 20° over the southern parts of Russia, and below the freezing point over nearly the whole of central and western Europe; 32° in London and at Oxford. Not touching 50° later at any of our own stations, excepting Belmullet, nor touching 40° over our south-eastern counties.

Wind Northerly, strong to a gale, over northern Europe; North-Easterly to Easterly, moderate to a gale, over the British Islands and France; very light and variable over central Europe, and Southerly to Westerly over Algeria and the south of Spain. No decided change later.

Barometer highest, 30·5 ins. at Christiansund, and exceeding 30·3 ins. over the whole of Norway and the northern parts of the British Islands. Lowest, below 29·5 ins. in two depressions—one over the north of Spain, the other over the north of Russia. Rising over the northern districts later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week there has been a modification in the pressure distribution over Europe. At the commencement the barometer was uniformly high (30·7 ins. to 30·5 ins.) over the Baltic, Germany France, England, and the Bay of Biscay, but low over Lapland, and rather low over the Mediterranean. South-Westerly and Westerly winds were consequently prevalent over the United Kingdom, with rather mild weather—showers in the west and north, and damp fogs over England, while some frost was reported in Germany.

During the next day or two the South-Westerly wind decreased in force, and was confined to more northern latitudes than at first, and an Easterly breeze set in over France, and spread slowly across the Channel to the southern part of England, bringing with it colder, but finer weather. After Wednesday the anticyclone became complex, and its western part moved much further to the northward than at first. The Easterly wind, therefore, spread gradually to the northward, and increased in force to a very strong, squally breeze, and both on Thursday and Friday the frost was very keen at the Continental stations. Depressions of considerable importance appeared over the Mediterranean, and the weather in those regions was rough and unsettled.

At the end of the week strong North-Easterly and Easterly breezes were prevalent at all our own stations, and the air was becoming very dry and searching.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·0	- 8·8	0	- 17	SOUTHPORT	4·7	?	9	?
OSWALDKIRK (Yorkshire)	0·1	- 9·7	0	- 18	MANCHESTER (Oldham Road)	0·8*	?	1*	?
WORKSOP	0·3	- 8·7	1	- 15	COLWYN BAY	3·0	?	5	?
THURCASTON (Leicestershire)	3·9	- 5·8	7	- 10	NEWQUAY	9·2	- 4·8	16	- 9
MARGATE	8·7	- 3·8	15	- 6	TORQUAY	4·8*	- 7·6	8*	- 14
WESTBOURNE (Sussex)	13·2*	+ 2·2	23*	+ 3	ARLEY COTTAGE (County Cavan)	5·8	- 7·0	11	- 13
BRIGHTON	14·5	+ 2·8	25	+ 3	GUERNSEY	11·5*	+ 0·4	19*	+
EASTBOURNE	12·2	+ 0·1	21	0					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 49.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 5TH, 1896. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

DISTRICTS. (See p. 290.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	50	23	45·0	34·4	39·9	1 above	8	− 2	30	+ 8	2126	+173	476	−275
1. ENGLAND, EAST	49	14	43·0	31·6	37·5	1 below	3	− 8	39	+11	2432	+ 90	629	−178
2. ENGLAND, N.E.	47	21	43·1	34·3	39·1	1 below	3	−11	27	+ 5	2691	+140	481	−165
3. ENGLAND, EAST	50	21	43·5	33·8	38·8	1 below	4	−11	31	+ 6	3027	+ 79	597	−131
4. MIDLAND COUNTIES	50	20	41·9	32·0	37·2	3 below	0	−17	34	+ 8	2982	+ 62	605	−148
5. ENGLAND, SOUTH	52	28	44·9	37·0	41·1	1 below	8	−15	21	+ 7	3404	+171	370	−173
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	49	19	43·7	35·4	39·8	1 below	5	−11	26	+ 8	2661	+173	393	−167
7. ENGLAND, N.W.	51	23	43·5	35·3	39·6	2 below	4	−14	26	+10	2955	+223	348	−182
8. ENGLAND, S.W.	53	26	46·2	37·7	42·1	2 below	19	− 9	12	+ 2	3299	+229	301	−102
9. IRELAND, NORTH	53	25	44·9	34·9	40·1	1 below	8	− 8	28	+11	2797	+178	313	−165
10. IRELAND, SOUTH	56	30	47·2	38·4	43·0	1 below	22	− 4	10	− 2	3240	+238	232	−132
—CHANNEL ISLANDS	54	21	49·2	40·9	45·2	2 below	27	−15	3	0	3888	+331	49	−106

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 290.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	4	5	8 less	230	+ 1	51·5	+ 3·5	7	+ 4	15	+ 7	973	− 69	23	− 1
1. ENGLAND, EAST	5	14	7 more	192	+ 5	26·5	− 4·3	7	− 1	14	− 1	1230	− 24	29	0
2. ENGLAND, N.E.	4	11	5 more	176	− 1	22·5	− 2·3	8	− 1	16	− 1	1214*	− 38	29	0
3. ENGLAND, EAST	5	10	4 more	169	− 4	23·1	− 1·6	14	+ 3	26	+ 6	1469	− 30	35	0
4. MIDLAND COUNTIES	5	13	7 more	165	− 4	22·6	− 4·0	11	+ 4	20	+ 7	1317	− 15	31	− 1
5. ENGLAND, SOUTH	5	16	9 more	155	−10	23·6	− 3·7	15	+ 4	27	+ 7	1570	+ 2	37	0
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	5	8	5 less	193	+ 2	40·4	− 5·6	5	− 2	10	− 5	1316	− 5	31	0
7. ENGLAND, N.W.	5	7	1 less	181	− 3	31·4	− 1·6	5	− 3	9	− 5	1235	+ 16	31	0
8. ENGLAND, S.W.	5	23	13 more	164	−23	28·9	− 8·1	13	+ 2	24	+ 3	1705	+ 89	40	+ 2
9. IRELAND, NORTH	4	8	1 less	207	− 6	35·8	+ 0·5	13	+ 3	25	+ 5	1198	− 44	28	− 1
10. IRELAND, SOUTH	5	11	2 more	180	−13	31·8	− 4·6	14	+ 2	25	+ 2	1399	− 12	33	0
—CHANNEL ISLANDS	6	16	7 more	184	−15	26·6	− 4·7	11	− 2	19	− 4	1879	+ 19	44	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was fine and dry during the early days of the period, but became very unsettled and rainy later over the entire Kingdom, and continued so till the end of the period.

Temperature was again slightly below the mean except in Scotland N., the deficiency ranging from 1° to 3°. The highest of the maxima were recorded either on December 2nd or 3rd, and ranged from 56° in Ireland S., to 47° in England N.E. The lowest of the minima were recorded on November 30th or December 1st, and ranged from 14° in Scotland E., 19° in Scotland W., and 20° in the Midland counties, to 30° in Ireland S., and 31° in the Channel Islands. The lowest grass minimum temperature reported was 10°, which occurred at Worksop on November 30th.

Rainfall was less than the mean in Scotland N. and W., as well as in England N.W. and Ireland N. In all other districts, however, it was above the normal, the excess being very large in most parts of England, and also in Scotland E.

Bright Sunshine somewhat exceeded the mean in most districts. The percentage of the possible duration ranged from 27° in England S., 26 in England E., and 25° in Ireland, to 10° in Scotland W., and 9° in England N.W.

Barometer and Wind.—The distribution of pressure continued anticyclonic during the earlier days of the period, and moderate to strong Easterly winds prevailed over all the more southern districts, but light Westerly or variable airs in the north. By Tuesday, however, a decided fall of the Barometer had set in in the west and south-west, and during the next day or two rather deep depressions moved northwards outside our extreme south-western and western coasts, causing strong winds or slight gales from South or South-South-East in many parts of the Kingdom. By the morning of Friday the centre of a very deep depression had advanced rapidly to the neighbourhood of the Scilly Isles. This system subsequently moved eastwards to the Channel Islands, then northwards to central England, and subsequently in a north-westerly direction over the north-west of Great Britain. Very strong South-Easterly to Southerly gales were caused by this depression as it passed over the Channel and England, the gale being especially heavy on our south and south-east coasts. On Saturday evening another depression was approaching Scilly from the south-westward, and the wind was rising from South-East on our south-western coasts.

607 '90 W. & S., Ltd.
213 70 12 | 96 1896.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 289 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	32	45·1	38·3	41·8	+ 1·4	9	16	5	0·67	−0·33	*	*	*	*
	Stornoway	50	23	47·6	34·0	41·1	+ 0·7	16	34	4	0·38	−0·84	11·4	+ 5·5	24	+10
	Wick	47	30	45·7	35·7	40·9	+ 1·4	10	26	4	1·13	+0·45	*	*	*	*
	Lairg ℌ	49	23	42·8	31·4	37·3	+ 0·5	2	40	5	0·76	−0·04	*	*	*	*
	Glencarron ℌ	50	26	45·2	33·4	39·5	+ 1·0	9	34	2	0·44	−1·82	*	*	*	*
	Fort Augustus ℌ	50	24	44·2	34·0	39·3	− 0·3	6	31	3	0·16	−0·95	5·0	+ 3·3	10	+ 6
	Fort William ℌ	50	24	44·4	34·0	39·4	+ 0·2	7	31	3	0·21	−1·82	5·1	+ 2·4	11	+ 5
1. SCOTLAND, E.	Nairn	49	19	44·6	28·7	37·0	− 1·5	7	51	4	0·32	−0·19	*	*	*	*
	Aberdeen	47	23	43·4	34·3	39·0	− 0·1	4	29	5	2·29	+1·50	6·5	− 2·8	14	− 5
	Braemar ℌ	43	14	39·8	28·9	34·6	− 1·0	0	52	5	1·75	+1·03	6·0†	+1·0†	13†	+ 3†
	Ochtertyre ℌ	46	18	42·9	31·0	37·2	− 1·1	3	41	5	1·85	+0·86	*	*	*	*
	Leith	49	23	44·6	33·0	39·0	− 1·3	7	35	4	0·48	−0·02	*	*	*	*
	Marchmont ℌ	45	22	42·6	33·4	38·2	+ 0·2	2	32	5	1·68	+0·86	9·3	+ 0·4	19	+ 1
2. ENGLAND, N.E.	Alnwick Castle	45	21	42·9	32·9	38·1	− 1·7	3	34	4	1·41	+0·64	*	*	*	*
	Durham	45	22	41·9	32·9	37·6	− 1·8	0	31	4	1·03	+0·43	9·1	− 0·7	18	− 2
	Shields	47	28	44·1	35·4	39·9	0·0	6	26	4	1·20	+0·65	*	*	*	*
	Scarborough ℳ	46	28	43·3	36·1	39·8	− 1·1	4	22	4	0·90	+0·29	*	*	*	*
	York	46	24	43·3	33·6	38·6	− 1·2	4	31	4	1·29	+0·81	7.6	+ 1.4	14	+ 1
	Spurn Head	45	30	43·3	38·0	40·8	+ 0·4	4	16	4	0·79	+0·29	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	47	22	43·4	32·6	38·2	− 1·7	4	35	5	1·17	+0·55	14·8	+ 5·1	27	+ 9
	Yarmouth	46	30	42·4	36·4	39·5	− 0·6	1	21	4	0·63	−0·01	*	*	*	*
	Geldeston	43	23	44·3	34·7	39·7	− 0·9	6	29	4	0·65	+0·08	14·2	+ 2·5	26	+ 3
	Cambridge	50	21	44·3	31·9	38·4	− 1·4	6	39	5	0·91	+0·49	11·9	+ 1·1	22	+ 2
	Rothamsted	49	24	42·9	33·5	38·4	− 1·5	3	32	5	1·51	+0·93	14·8	+ 4·8	27	+ 8
4. MIDLAND COUNTIES	Harrogate ℳ	47	22	40·9	32·4	36·8	− 2·1	0	36	4	1·68	?	2·8	?	5	?
	Bawtry (Hesley Hall)	47	20	41·9	30·3	36·3	− 3·7	0	40	4	0·99	+0·52	*	*	*	*
	Loughborough	50	20	42·9	31·9	37·6	− 3·3	3	37	5	1·06	+0·58	*	*	*	*
	Stamford (Duddington)	48	21	41·7	32·3	37·2	− 2·4	0	34	5	1·25	+0·60	*	*	*	*
	Cheadle ℳ	46	26	40·1	33·0	36·7	− 2·2	0	37	4	1·33	+0·69	*	*	*	*
	Shirley (near Solihull)	49	24	42·1	32·1	37·3	− 2·7	0	36	5	1·43	?	*	*	*	*
	Churchstoke ℳ	47	20	41·0	31·8	36·6	− 3·2	0	38	5	1·40	+0·67	13·3	+ 4·5	23	+ 6
	Hereford ℳ	48	21	42·0	31·1	36·8	− 4·2	0	36	5	1·39	+0·78	*	*	*	*
	Cirencester	49	23	42·7	31·9	37·5	− 2·3	2	37	5	0·96	+0·30	12·9	+ 3·9	23	+ 6
	Oxford	50	23	44·1	33·0	38·8	− 2·0	6	35	5	1·10	+0·54	15·2	+ 5·7	28	+ 9
5. ENGLAND, S.	London	52	28	44·7	34.6	39·9	− 1·3	8	30	5	1·36	+1·21	7·8†	+ 2·6†	14†	+ 3†
	North Foreland	48	32	43·7	36·3	40·2	− 2·1	5	23	4	0·87	?	*	*	*	*
	Dungeness	48	29	44·4	37·6	41·1	− 1·6	7	18	4	1·05	+0·34	*	*	*	*
	Hastings (St. Leonards)	49	30	44·5	37·6	41·2	− 1·4	7	18	5	2·03	+1·35	10·8	+ 3·6	30	+ 7
	Southampton	52	28	45·5	37·2	41·6	− 0·6	10	21	5	1·71	+1·01	16·3	+ 5·0	29	+ 8
	Hurst Castle	51	34	46·7	39·9	43·4	− 0·5	19	6	5	1·56	+0·91	*	*	*	*
	Stowell ℳ	49	29	44·8	35·3	40·2	− 1·9	8	26	5	2·05	+1·22	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	31	45·7	37·8	41·9	+ 0·6	10	18	5	0·61	−1·52	*	*	*	*
	Glasgow	47	25	41·9	34·5	38·4	0·0	0	25	5	0·61	−0·29	0·2	− 3·5	0	− 8
	Ardrossan	48	23	43·6	33·3	38·7	− 3·2	4	33	5	0·34	−0·47	*	*	*	*
	Glenlee ℌ	47	19	42·4	32·5	37·7	− 1·5	1	35	5	1·18	−0·32	*	*	*	*
	Douglas (Isle of Man)	48	36	44·9	39·0	42·1	− 1·0	13	8	5	1·30	+0·28	10·3	− 0·7	19	− 3
7. ENGLAND, N.W.	Stonyhurst	47	27	41·2	34·9	38·2	− 2·1	0	27	4	0·63	−0·39	5·3	− 2·4	10	− 4
	Blackpool ℳ	50	23	43·9	33·4	38·9	− 2·0	5	33	5	0·28	−0·45	3·5	− 2·5	7	− 6
	Manchester (Prestwich)	48	25	44·1	34·3	39·4	− 0·8	6	30	4	0·84	+0·04	3·3	?	6	?
	Liverpool Obsy. (Bidston)	48	28	42·1	34·6	38·5	− 2·5	0	27	4	0·50	−0·14	*	*	*	*
	Llandudno ℳ	49	30	44·2	37·2	40·8	− 2·9	6	19	5	0·63	−0·08	*	*	*	*
	Holyhead	51	30	45·4	37·3	41·5	− 3·6	10	20	5	1·22	+0·36	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	26	44·9	33·6	39·5	− 2·4	8	33	5	1·82	+0·64	*	*	*	*
	Pembroke	50	33	45·0	38·3	41·8	− 3·5	8	16	5	1·52	+0·59	13·2	+ 3·0	24	+ 4
	Clifton	49	27	44·3	35·0	39·8	− 1·4	6	27	5	1·34	+0·58	*	*	*	*
	Arlington (N. Devon)	50	28	45·3	34·1	39·9	− 2·3	9	31	5	1·58	+0·21	*	*	*	*
	Cullompton ℳ	51	26	46·5	36·9	41·9	− 1·1	13	22	5	2·64	+1·85	15·5	+ 7·0	28	+12
	Falmouth	52	37	48·0	43·0	45·6	+ 0·7	25	0	6	2·77	+1·57	11·9	− 0·9	21	− 2
	Plymouth	53	33	48·5	40·7	44·8	0·0	25	4	6	3·29	+2·37	14·1	+ 3·0	25	+ 5
	Prawle Point	51	30	47·4	39·7	43·7	− 1·4	22	6	5	3·11	+2·41	*	*	*	*
9. IRELAND, N.	Malin Head	47	33	44·7	37·4	41·2	− 1·6	8	19	4	0·36	?	*	*	*	*
	Londonderry	49	30	44·7	35·5	40·3	− 1·2	8	26	4	0·43	−0·52	*	*	*	*
	Edenfel (Omagh)	48	28	42·9	33·7	38·3	− 0·6	3	31	5	0·62	−0·18	*	*	*	*
	Belmullet	53	31	47·9	34·7	41·6	− 2·0	17	32	4	0·87	−0·45	*	*	*	*
	Markree Castle	50	28	45·1	34·8	40·2	− 0·8	9	29	4	0·95	+0·05	13·2	+ 3.4	25	+ 7
	Armagh	49	25	44·7	34·2	39·7	− 0·6	8	31	5	0·77	+0·17	11·3	+ 1·1	21	+ 1
	Donaghadee	48	29	46·6	37·9	42·4	− 0·5	20	11	5	1·13	+0·53	*	*	*	*
	Edgeworthstown	49	25	42·9	30·8	37·1	− 3·1	3	42	4	0·69	+0·09	*	*	*	*
10. IRELAND, S.	Dublin	52	34	46·5	38·6	42·7	− 0·2	19	10	4	1·22	+0·77	14·7	+ 1·6	27	+ 2
	Parsonstown	51	31	45·7	35·4	40·8	− 0·2	10	27	5	0·46	−0·31	17·8	+ 5·8	33	+11
	Kilkenny	50	32	46·6	37·6	42·3	− 1·1	21	12	4	0·93	+0·34	*	*	*	*
	Roche's Point	51	35	47·6	41·3	44·6	− 0·5	21	2	5	1·95	+0·79	*	*	*	*
	Valencia	56	36	49·7	41·0	45·5	− 0·7	29	3	6	1·30	+0·06	8·8	− 2·0	16	− 5
	Killarney												*	*	*	*
	Foynes	54	39	47·1	36·4	42·0	− 1·0	14	16	3	0·50	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	34	51·0	42·4	46·9	− 0·9	34	0	6	1·75	+0·79	11·7	?	21	?
	Jersey	51	31	47·4	39·3	43·5	− 2·4	22	8	5	1·46	+0·59	12·3	− 1·5	21	− 4

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

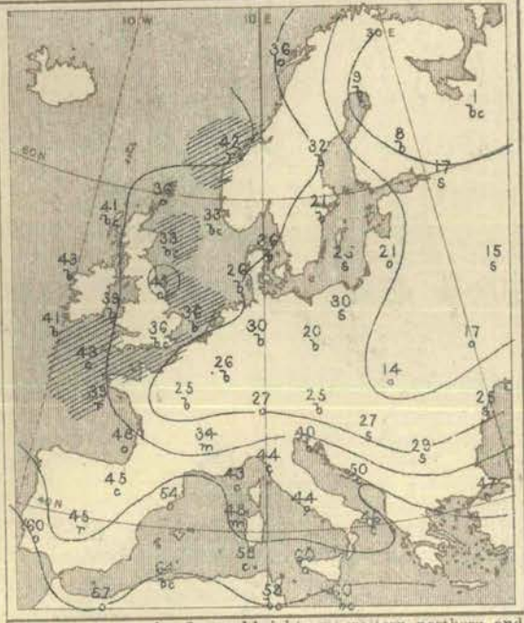
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 29th November.

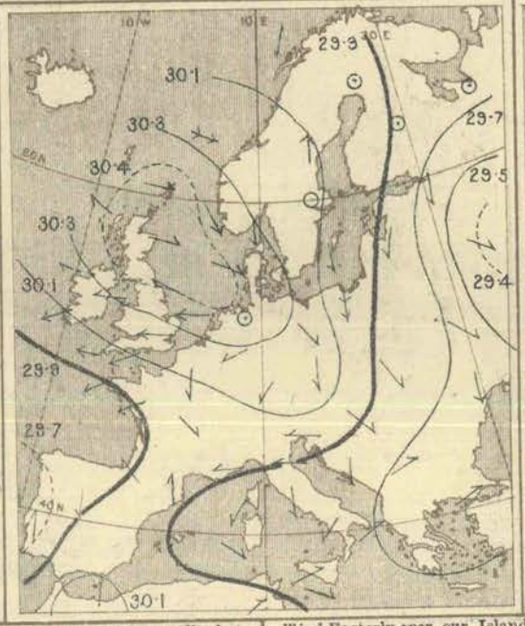
Temperature and Weather.

8 a.m.

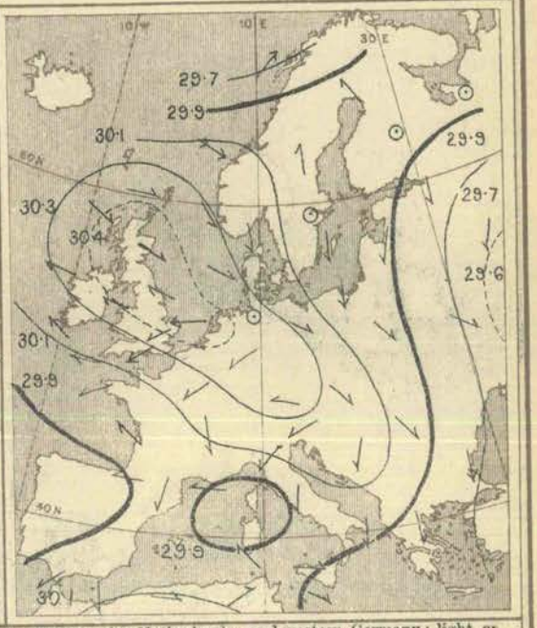


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western, northern, and central Europe generally, but dull in the west of Norway, with rain at Christiansund. Cloudy in most of the southern and eastern countries, with rain at Madrid, and snow in several parts of Russia and Austria. Snow falling later over the northern parts of Sweden; no important change occurring elsewhere.

Temperature risen in the south of England, and also over the Netherlands, France, and Italy; fallen in most other localities. Morning readings highest, 64° at Algiers, 60° at Lisbon, Palermo, and Malta, and 59° at La Calle; above 50° at the Mediterranean and Spanish coast stations generally. Lowest, 1° at Archangel, 8° at Knopio, 9° at Haparanda, and 10° at Uleaborg; considerably below the freezing point over eastern and central Europe generally, and slightly below it at some of the inland stations in Great Britain. Daily maxima below 40° in many parts of England, but thermometer exceeding 45° on our western and extreme northern coasts, and reaching 50° at Stornoway and Belmullet. Exceeding 55° over southern Europe as a whole; reaching 70° at Palermo and 72° at San Fernando.

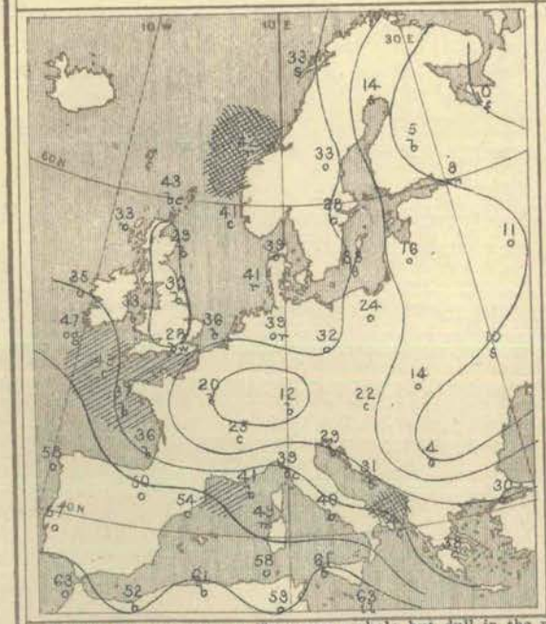
Wind Easterly over our Islands, France, the Netherlands, and western Germany; light or moderate in force generally, but very strong on our own southern coasts. Northerly or North-Westerly over northern, eastern, and central Europe as a whole, with a gale at Christiansund and Neufahrwasser. North-Easterly over the northern and central parts of Italy, but South-Westerly in the south of that country. Subsequently shifting to the Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the North Sea and the northern parts of Great Britain; 30·1 ins. and upwards in another system over Morocco. Lowest, 29·4 ins. and less in a well-marked depression over central Russia; 29·8 ins. and less in a shallow disturbance lying off the Portuguese coasts. Anticyclone subsequently spreading gradually south-westwards; depression over central Russia moving away to the south-eastward.

Monday, 30th November.

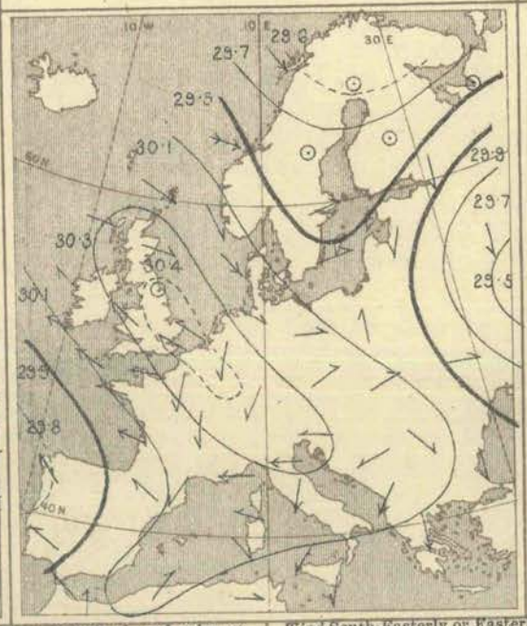
Temperature and Weather.

8 a.m.

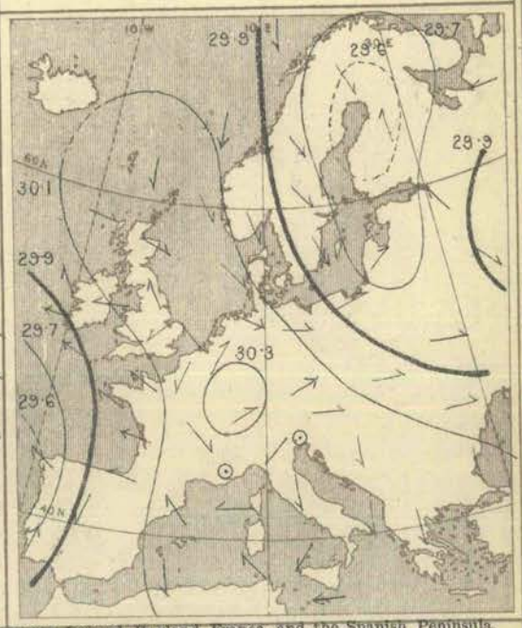


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over western Europe as a whole, but dull in the west of Ireland, and rainy at Lorient. Dull over the northern, eastern, and central countries generally, with rain or snow at many places; cloudy also over the Spanish Peninsula and the southern parts of Italy; thunderstorm reported at Malta. Rain setting in later in the south of Ireland, and also over the Spanish Peninsula; no important change occurring elsewhere.

Temperature fallen several degrees over western and southern Europe generally, and also in Russia, risen in the northern and central countries. Morning readings highest, 63° at San Fernando and Malta, and 61° at Palermo and Algiers; above 50° at the Mediterranean and Spanish coasts stations generally. Lowest, 0° zero at Archangel and Kharkov, 4° at Hermanstadt, and 5° at Knopio; considerably below the freezing point over the central parts of Great Britain and France, and also in Belgium and south Germany. Daily maxima below 40° at several of our own northern stations, as well as in central France; thermometer exceeding 45° on our extreme south-west coasts, exceeding 50° over southern Europe generally, and reaching 64° at Corunna and Cagliari.

Wind South-Easterly or Easterly over Ireland, England, France, and the Spanish Peninsula, and strong in force on our own south-west coasts. Calm or light from the Westward over the northern and north-eastern parts of Great Britain. Strong to a gale from the North-Westward in the west of Norway; moderate to fresh from the same quarter or from West over Denmark and Germany; calm in the north of Sweden. Light from the Northward over the greater part of Russia, fresh or strong from the Northward or North-Eastward in Italy. No important change occurring over western Europe during day, but strong North-Westerly winds setting in over Sweden.

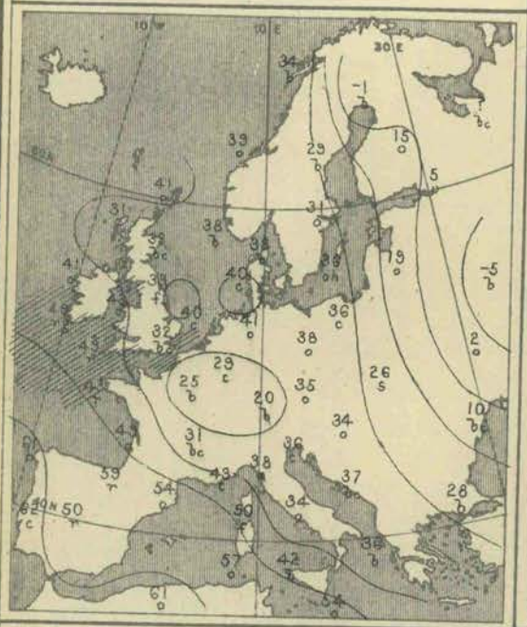
Barometer highest, 30·4 ins. and upwards over the Netherlands and the east of England; 30·1 ins. and upwards in an anticyclone covering the greater part of western and southern Europe. Lowest, 29·6 ins. and less in two depressions, one lying over central Russia, and the other over the north of Scandinavia; 29·8 ins. and less in another disturbance lying to the westward of the Portuguese coasts. Last mentioned disturbance subsequently moving north-eastwards, and barometer falling briskly on our own extreme south-west coasts.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 1st December.

Temperature and Weather.

8 a.m.

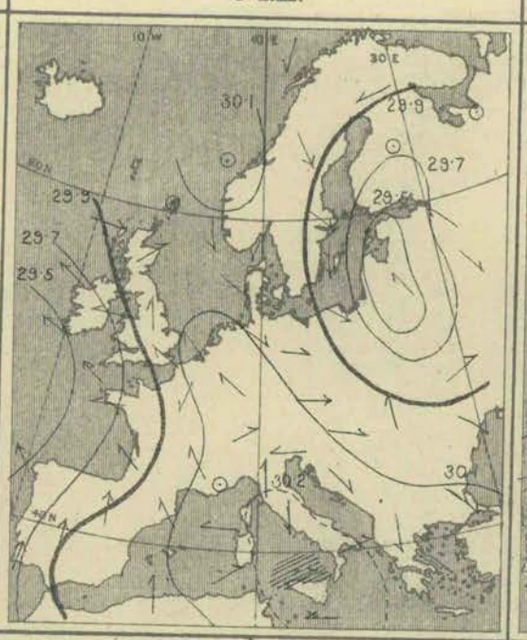


Weather in morning fine over Italy, the eastern half of the Mediterranean, western Germany, the North Sea, and the eastern parts of Great Britain; dull and rainy over western Europe, dull over Russia, with much snow over the Baltic Provinces, Poland, and Hungary. Considerable rain over Ireland and the western and southern parts of England later, as well as in the west and south of France. Fall amounting to more than 1·1 ins. at Prawle Point, and 0·3 in. to 0·5 in. in the south of Ireland.

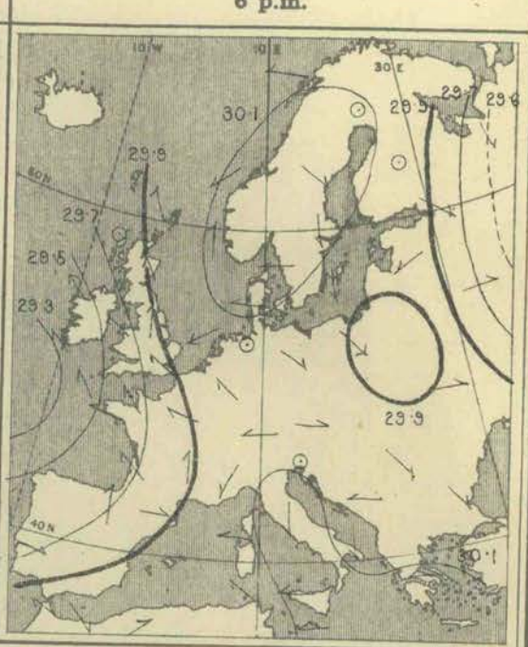
Temperature in morning highest, 62° at Lisbon, 61° at Algiers, 57° at Cagliari, and above 55° at many stations on the southern side of the Mediterranean. Lowest, (1) -5° Fahr. at Moscow, -1° at Haparanda, +5° at St. Petersburg, and below 10° at nearly all the Russian stations, 19° at Riga; (2) 20° at Munich, 22° at Belfort, 29° at Brussels, 30° at Loughborough. Rising later to 56° at Valencia, 53° at Scilly, 60° at Perpignan, 66° at Biarritz, but touching only 40° in London, and 39° at Loughborough. Very cold (minimum 19°) at Nairn in evening, but rising over Ireland and England.

Barometer and Wind.

8 a.m.



6 p.m.



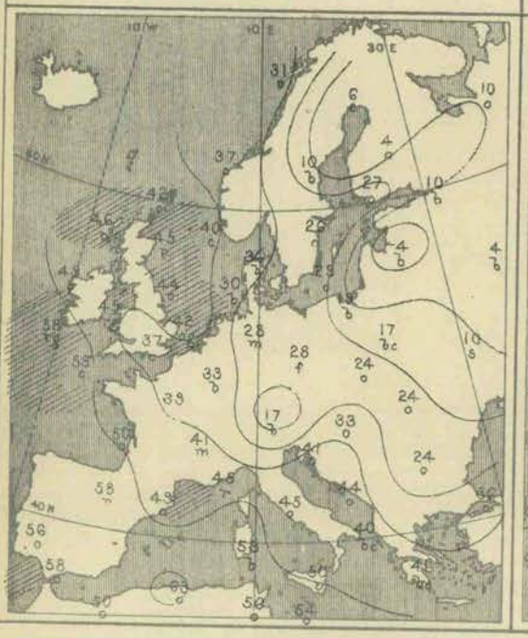
Wind extremely light and variable over the east of France and west of Germany, the North Sea and Norway; North-Westerly to Northerly, strong to a gale, over Sweden and the Baltic. South-Easterly over the British Islands—strong in the west, and blowing a gale at some of the Irish stations. Increasing in force from South-East in the east of Scotland later, and from the Eastward in the east of England.

Barometer highest, 30·2 ins. and more over Sicily and Italy, and exceeding 30·0 ins. over western Germany, the North Sea, the eastern parts of Great Britain, and in Norway. Lowest, below 29·5 ins. in two depressions—one over the Baltic Provinces and the Gulf of Riga, the other off our extreme south-western coasts. Former depression subsequently moving southwards and partially filling up; latter disturbance spreading eastwards over the United Kingdom.

Wednesday, 2nd December.

Temperature and Weather.

8 a.m.

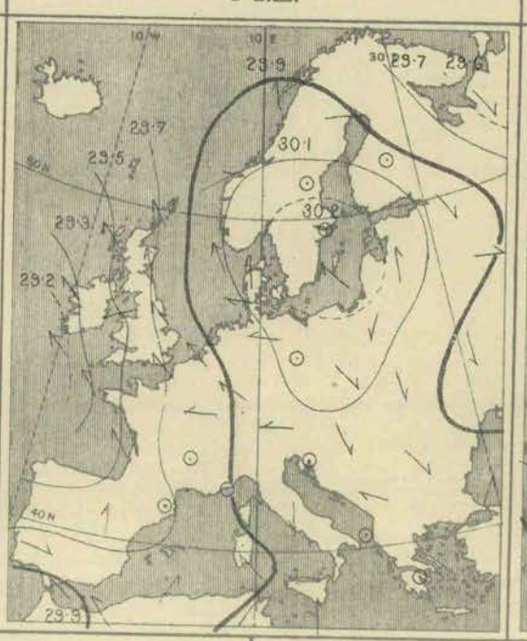


Weather in morning fine and bright over the greater part of Sweden, Denmark, and the eastern parts of France, as well as over the Baltic Provinces and central Russia; dull elsewhere, and very unsettled over the British Islands, with rain in several places. Considerable quantities of rain later over the British Islands, France, and central Italy—0·8 in. in Rome, 0·7 in. in Valencia (Ireland), and about 0·6 in. at Loughborough, Roche's Point, London, Cape Gris Nez, and Perpignan; lightning seen at Nairn, and aurora at Aberdeen.

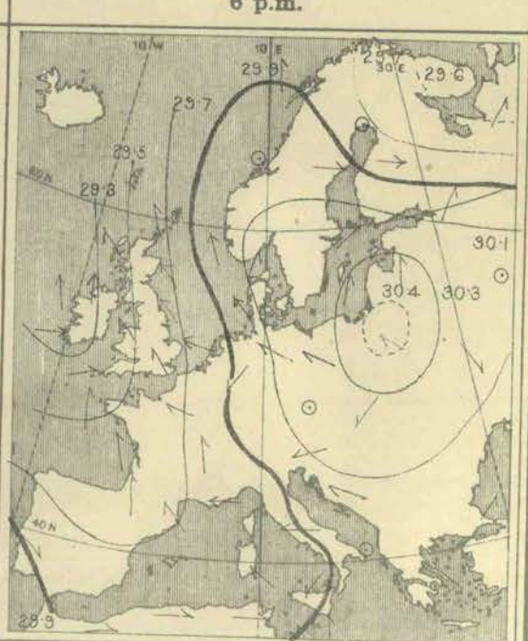
Temperature rising over western Europe generally, falling fast over Russia. Morning readings highest, 63° at Algiers, 61° at Sfax, 58° at Biarritz, 55° at Valencia, 53° at Scilly. Lowest, (1) -4° Fahr. at Riga, +4° at Moscow and Kuopio, 6° at Haparanda, 10° at St. Petersburg, Neufahwasser and Kiev, 17° at Munich, 29° at Belfort, 37° in London. Rising over western Europe during the day, and air becoming more humid. Exceeding 55° in most of the southern countries, and reaching 63° at Cagliari, Palermo, and Malta.

Barometer and Wind.

8 a.m.



6 p.m.



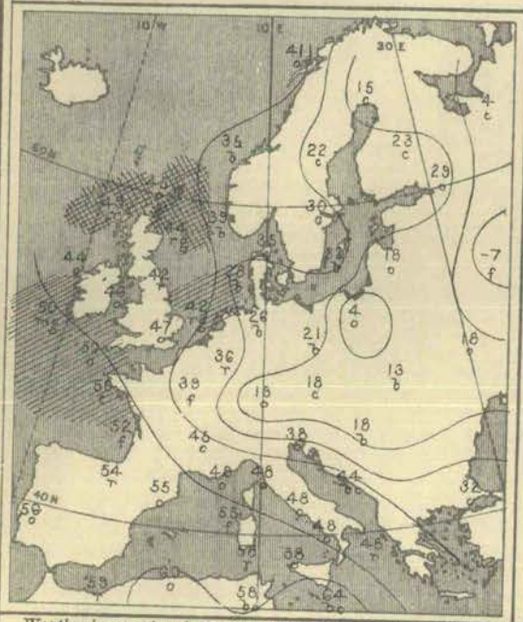
Wind South-Easterly over the British Islands and France, and blowing strongly on all exposed parts of our coasts; light and anticyclonic over northern Europe, and mainly Easterly in the south, but South-Westerly over Algeria. Blowing a strong gale in the east of Scotland later, and becoming very variable in Ireland. Moderate Westerly or South-Westerly breezes setting in over Sweden and northern Russia.

Barometer highest, 30·2 ins. and more to 30·0 ins. in an anticyclone covering the Baltic, Scandinavia, and central Europe, and stretching southwards to Italy, Sicily, and Greece. Lowest, below 29·2 ins. off the extreme west of Ireland, and about 29·5 ins. in the north of Spain. Falling unsteadily over the British Islands later, and gradients becoming less steep.

Thursday, 3rd December.

Temperature and Weather.

8 a.m.

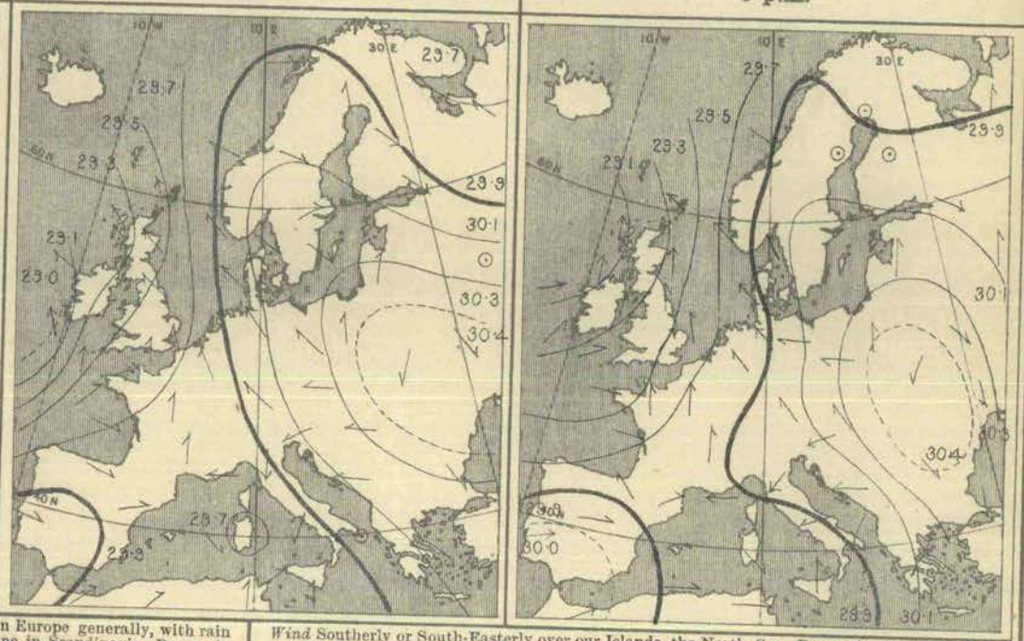


Weather in morning dull and unsettled over western and southern Europe generally, with rain in many parts of our Islands, France, and Belgium. Fine in Scandinavia, Denmark, Germany, and Austria; dull at most of the Russian stations, with snow at Kharkov, and also at Constantinople. Some improvement taking place later over Ireland and England, but heavy rain falling in the east of Scotland, as well as at some of the French stations—amount as large as 2·6 ins. at Belfort. Brilliant aurora seen at Stornoway and Roche's Point, and also in Sweden.

Temperature risen over Great Britain, France, and Italy, as well as at most of the Swedish and Russian stations, fallen elsewhere. Morning readings highest, 64° at Malta and Algiers, 59° at Oran, and 58° at Sanguinaire, Palermo, Nemours, and La Calle. Lowest, −7° Fahr. at Moscow, −5° at Warsaw, and +4° at Archangel and Neufahrwasser; considerably below the freezing point over the whole of Russia, Germany, and Austria. Rising during day to 50° and upwards over the central and southern parts of our Islands; exceeding 55° over southern Europe generally, and reaching 70° at Palermo, and 79° at Cagliari.

Barometer and Wind.

8 a.m. 6 p.m.



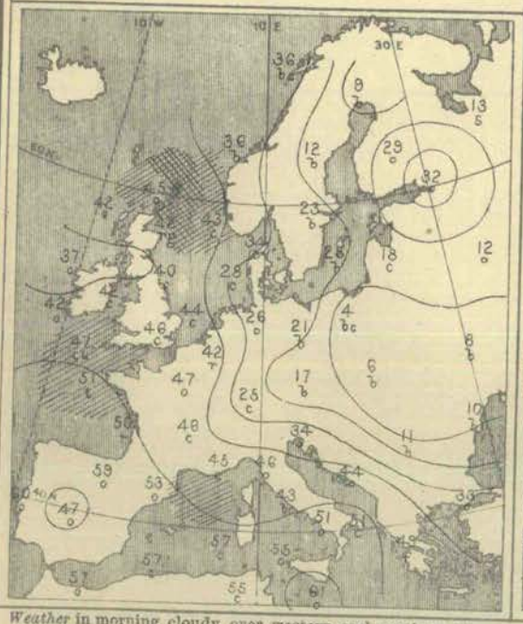
Wind Southerly or South-Easterly over our Islands, the North Sea, Denmark, Germany, and the Netherlands, with a gale in the south of Ireland and the north-east of Scotland. Westerly or South-Westerly over the Bay of Biscay and the Spanish Peninsula. Westerly or North-Westerly over Sweden and Finland; Northerly in the south of Russia; Easterly in Austria; North-Easterly in Italy. Subsequently veering to the South-Westward on our extreme west and south-west coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over the south-western and extreme southern parts of Russia; 30·1 ins. and upwards in an anticyclone covering the eastern parts of Europe generally: Lowest, 29·0 ins. and less in a depression lying off the south-west of Ireland; 29·7 ins. and less in a shallow system over Sardinia. Irish depression subsequently moving northwards, and barometer rising unsteadily on our western coasts; disturbance over Sardinia passing away to the south-eastward.

Friday, 4th December.

Temperature and Weather.

8 a.m.

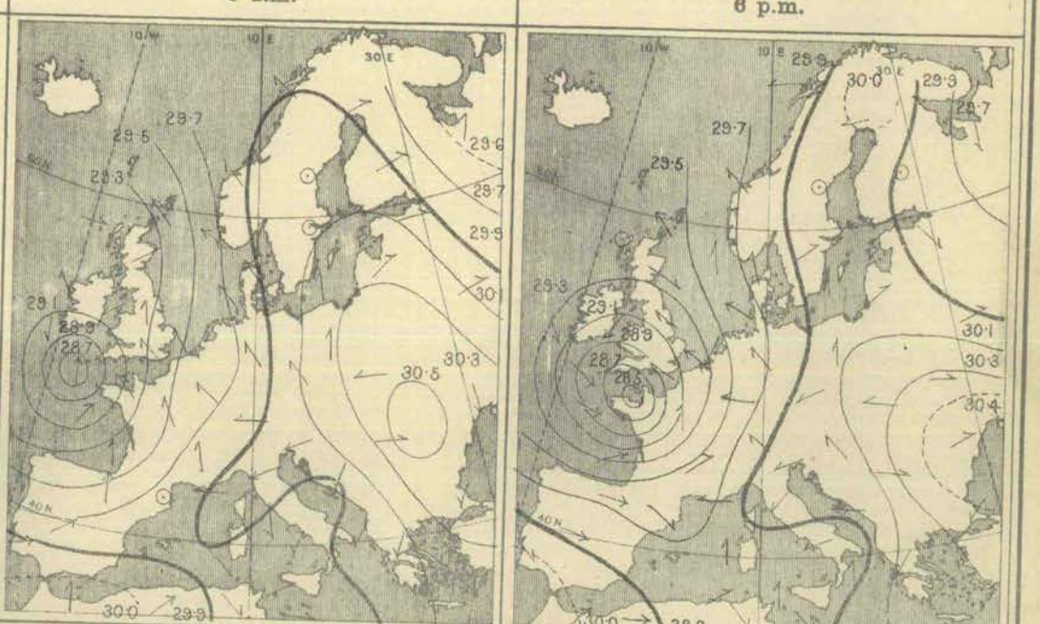


Weather in morning cloudy over western and southern Europe generally, with rain in the south-west of England and the west of France, as well as in the east of Scotland. Fair over the northern parts of England and Ireland, and also over Scandinavia, Germany, Austria, and the south of Russia; dull over northern Russia, with snow at Archangel, as well as at Warsaw. Rain falling later over nearly the whole of our Islands, France, and the Spanish Peninsula—heavily in places, the amount being as large as 2 ins. at Toulon. Aurora seen at Cambridge, and also at several of the Scandinavian stations.

Temperature fallen in the west and north of our Islands, as well as in Scandinavia and the south of Russia; changed irregularly elsewhere. Morning readings highest, 61° at Malta, 60° at Lisbon, and 59° at Biarritz; above 50° at most of the coast stations in south-western and southern Europe. Lowest, 4° at Neufahrwasser, 6° at Lemberg, 7° at Memel, 8° at Kiew and Nicolaieff; considerably below the freezing point over northern, eastern, and central Europe generally. Rising during day to 45° and upwards in most parts of our Islands; exceeding 55° over Spain and the south of France.

Barometer and Wind.

8 a.m. 6 p.m.

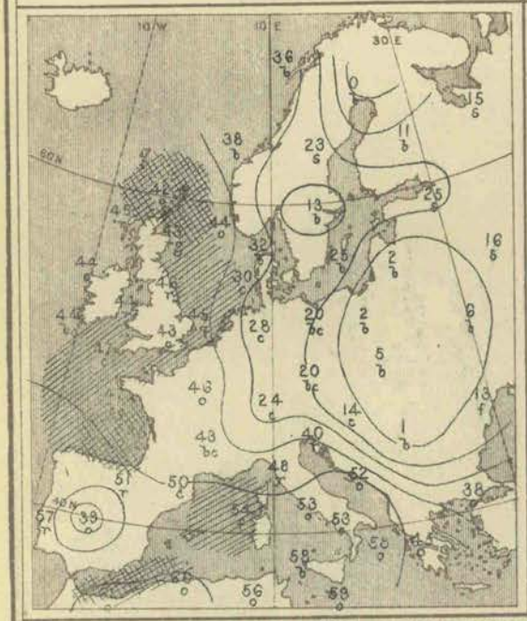


Wind blowing a gale from the Southward or South-Westward in the west of France, and from the South-Eastward in the western parts of the Channel; moderate to fresh from the Northward in the south of Ireland. Southerly or South-Easterly in nearly all other parts of western Europe. Light to moderate from the Eastward in Germany and Austria, and from the North-Eastward in Italy. Westerly or South-Westerly over the northern and central parts of Russia. Subsequently increasing to a whole gale from the South-Eastward on the south-east coasts of England, and from the Northward at the mouth of the Channel; veering to West over the Bay of Biscay.

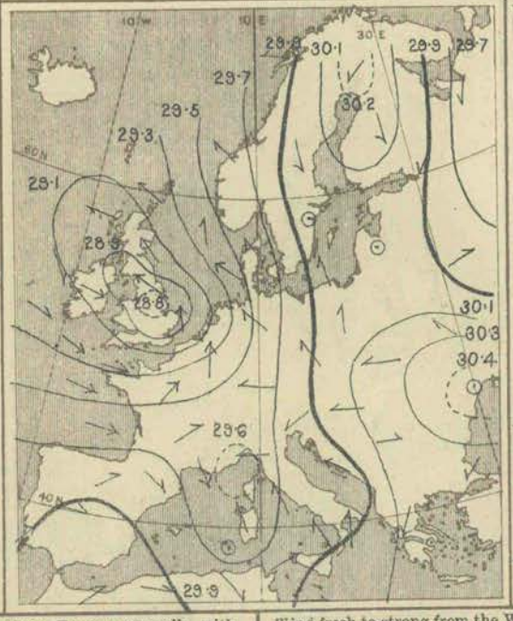
Barometer highest, 30·5 ins. and upwards over eastern Austria; 30·1 ins. and upwards in an anticyclone covering nearly the whole of eastern and south-eastern Europe. Lowest, 28·7 ins. and less in a deep depression having its centre a little to the westward of the Scilly Islands; 29·6 ins. and less in another disturbance in the neighbourhood of the White Sea. Former depression subsequently advancing eastwards and growing deeper; barometer at Jersey falling at 7 p.m. to a minimum of 28·32 ins.

Saturday, 5th December.

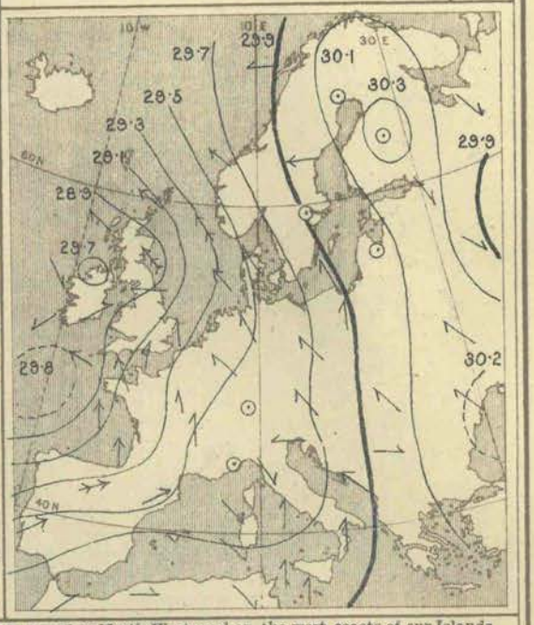
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy and unsettled over western and southern Europe generally, with rain in many parts of Great Britain, as well as in northern Italy and the neighbouring parts of France and Austria. Fine in the south of Ireland, and also in most parts of Scandinavia, Denmark, Germany, and the south of Russia; snow reported over northern and central Russia, as well as at Hernösand. Temporary improvement taking place later in the south of England, but rain again setting in at night in that district, and also over France. Snow falling at several of the Swedish stations, and heavy rain over northern Italy.

Temperature risen in the north of our Islands, as well as in the Netherlands, Germany, and Italy; fallen in most other localities. Morning readings highest, 61° at Nemours and Oran, 60° at Algiers, and 59° at Malta; above 50° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, 0 zero at Haparanda and Cracow, +1° at Hermanstadt, and 2° at Riga and Warsaw; considerably below the freezing point over the whole of eastern and central Europe. Rising during day to 45° and upwards over the United Kingdom generally; exceeding 55° in many parts of southern Europe.

Wind fresh to strong from the Westward or North-Westward on the west coasts of our Islands and France: strong from the South-Westward in the eastern parts of the Channel, and from the Southward in the Netherlands and the eastern parts of England and France. Strong from the South-Eastward in the east of Scotland, as well as in Norway, Denmark, Germany, Austria, and Italy. Northerly over Sweden and northern Russia; calm or variable in the south of Russia. Subsequently backing to the Southward or South-Eastward over the Channel and Bay of Biscay, and blowing a gale in many places. Strong South-Easterly gale springing up also in the north-east of Scotland.

Barometer highest, 30·4 ins. and upwards in the extreme south of Russia; 30·1 ins. and upwards in an anticyclone covering the whole of south-eastern Europe, and also in another system over the northern parts of Finland and Sweden. Lowest, 28·8 ins. and less in a well-marked depression having its centre over Lincolnshire; 29·6 ins. and less in a shallow disturbance over the Gulf of Genoa. Former depression subsequently travelling away to the north-westward, but new disturbance approaching our south-west coasts in evening.

GENERAL NOTES.

The anticyclone, which passed away to the northward of our Islands at the close of last week, appears to have ultimately divided into two portions. One of these advanced in a South-South-Easterly direction across Great Britain on the 29th and 30th November, when the strong Easterly winds hitherto noticed on our south coasts gradually died down, and the weather became for a time exceedingly fine and dry. The other travelled a little later on in a South-Easterly direction across Scandinavia and the Baltic to Russia; the chief distinction between the two systems being that, while the earlier one gradually dispersed, the latter steadily increased in height.

After the 30th a large depression spread over our Islands from the south-westward, and occasioned strong South-Easterly winds and unsettled rainy weather over western Europe generally, with gales on many parts of our western and northern coasts. Later on a new disturbance appeared in the south-west, and moved northward along the Irish and Scotch coasts, its departure being followed very suddenly by the advance of a far deeper depression towards the mouth of the English Channel. The latter system, after moving eastwards to the Channel Islands (where the barometer on the evening of the 4th fell below 28·4 ins.), advanced northwards over England, its progress being attended by a heavy gale from the South-Eastward and Southward on our south-east coasts, and by an equally severe gale from the Northward at the mouth of the Channel. At the close of the week the depression was moving away to the north-westward, but a new one was approaching our south-west coasts, and a strong Southerly gale was again springing up at some of the English Channel stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	4·2	- 2·8	8	- 6	SOUTHPORT	7·8	?	15	?
OSWALDKIRK (Yorkshire)					MANCHESTER (Oldham Road)	4·7*	?	9*	?
WORKSOP	11·0	+ 2·8	20	4	COLWYN BAY	*		*	
THURCASTON (Leicestershire)	?	?	?	?	NEWQUAY				
MARGATE	17·9	+ 6·2	32	+ 12	TORQUAY	12·5*	+ 0·7	22*	+ 1
WESTBOURNE (Sussex)	17·4*	+ 6·7	31*	+ 11	ARLEY COTTAGE (County Cavan)	15·3	+ 4·3	29	+ 7
BRIGHTON	16·0	+ 5·0	29	+ 8	GUERNSEY	8·5*	- 1·8	15*	- 3
EASTBOURNE	13·1	+ 1·3	23	+ 1					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		*	*	*	*	*	*	*	*		Inches.	Inches.				
Week ending Oct. 3rd, 1869	Edgeworthstown	60	39	59·2	43·6	51·0	+ 0·8	63	0	8	0·72	+0·07	—	—	—	—
,, ,, ,, ,, ,,	Killarney	62	40	59·2	49·9	54·2	+ 1·6	85	0	7	1·01	?	—	—	—	—
,, ,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	20·6	- 9·7	25	- 13
,, ,, ,, 10th, ,,	Churchstoke	60	34	56·5	40·0	48·0	- 0·8	50	6	7	2·40	+1·65	22·1	- 0·4	29	- 1
,, ,, ,, 17th, ,,	Stowel	54	33	49·9	40·2	44·9	- 4·9	28	5	5	0·19	- 0·61	—	—	—	—
,, ,, ,, ,, ,,	Edgeworthstown	53	31	49·5	34·5	41·8	- 5·8	21	30	2	0·10	- 0·59	—	—	—	—
,, ,, ,, 31st, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	12·4	?	19	?
,, ,, Nov. 7th, ,,	Harrogate	48	27	46·1	33·0	39·6	- 3·4	11	35	3	0·70	?	24·0	?	38	?
,, ,, ,, 14th, ,,	Hereford	52	27	47·1	31·3	39·2	- 4·5	14	41	2	0·18	- 0·13	—	—	—	—
,, ,, ,, ,, ,,	Edgeworthstown	52	25	47·8	36·1	42·0	- 0·6	16	17	3	0·42	- 0·38	—	—	—	—
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	17·1	?	28	?

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 50.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 12TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 296.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	29	45·0	37·2	41·2	3 above	8	− 1	20	− 6	2134	+172	496	−281
	1. SCOTLAND, EAST	49	28	43·4	35·4	39·6	2 above	4	− 4	25	− 8	2436	+ 86	654	−186
	2. ENGLAND, N.E.	50	31	44·8	37·7	41·4	2 above	8	− 3	18	− 8	2699	+137	499	−173
	3. ENGLAND, EAST	50	30	45·8	36·5	41·3	3 above	11	− 1	23	− 7	3038	+ 78	620	−141
	4. MIDLAND COUNTIES	50	30	45·6	35·8	40·9	2 above	10	− 2	26	− 4	2992	+ 60	631	−152
	5. ENGLAND, SOUTH	51	30	48·2	38·8	43·7	2 above	25	+ 6	9	−10	3429	+177	379	−183
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	32	45·4	37·8	41·8	2 above	10	− 4	18	− 3	2671	+169	411	−170
	7. ENGLAND, N.W.	50	33	46·1	38·4	42·4	2 above	18	+ 3	10	−10	2973	+229	358	−192
	8. ENGLAND, S.W.	51	28	48·0	39·1	43·7	1 above	24	+ 1	8	− 6	3323	+240	309	−108
	9. IRELAND, NORTH	51	29	45·7	35·5	40·8	0 (average)	10	− 4	27	+ 7	2807	+174	340	−158
	10. IRELAND, SOUTH	52	27	48·1	36·5	42·5	0 (average)	27	+ 4	15	0	3267	+242	247	−132
	—CHANNEL ISLANDS	53	39	51·0	43·8	47·5	2 above	39	+ 3	0	− 4	3927	+334	49	−110

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 296.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	4 less	236	+ 1	52·5	+ 3·1	2	− 1	4	− 4	975	− 70	23	− 1
	1. SCOTLAND, EAST	6	13	6 more	198	+ 7	27·8	− 3·7	1	− 6	1	−14	1231	− 30	29	0
	2. ENGLAND, N.E.	6	8	2 more	182	+ 2	23·3	− 2·1	1	− 7	1	−15	1216*	− 44	28	− 1
	3. ENGLAND, EAST	6	8	2 more	175	− 2	23·9	− 1·3	2	− 8	3	−16	1471	− 38	34	− 1
	4. MIDLAND COUNTIES	6	8	2 more	171	− 2	23·4	− 3·8	3	− 4	6	− 9	1320	− 19	31	− 1
	5. ENGLAND, SOUTH	6	7	1 more	161	− 8	24·3	− 3·7	6	− 5	11	− 9	1576	− 2	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	16	6 more	205	+ 4	42·0	− 5·3	4	− 3	7	− 7	1320	− 8	31	0
	7. ENGLAND, N.W.	7	13	5 more	188	0	32·7	− 1·1	1	− 5	3	−12	1238*	+ 11	31	0
	8. ENGLAND, S.W.	7	16	6 more	171	−21	30·5	− 7·5	14	+ 3	25	+ 4	1719	+ 92	40	+ 2
	9. IRELAND, NORTH	6	11	2 more	213	− 5	36·9	+ 0·8	13	+ 4	26	+ 8	1211	− 40	28	− 1
	10. IRELAND, SOUTH	6	17	9 more	186	−12	33·5	− 3·8	16	+ 5	31	+ 9	1415	− 7	33	0
	—CHANNEL ISLANDS	6	13	4 more	190	−14	27·9	− 4·3	14	0	25	0	1893	+ 19	44	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period has been very dull, squally, and rainy, but brief intervals of clear sky occurred at times, especially in the west.

Temperature was a little above the mean over Great Britain, but just equal to it in Ireland. The highest of the maxima were recorded about the middle of the week, and ranged from 53° in the Channel Islands to 49° in Scotland E. and W. The lowest of the minima, which were registered on rather irregular dates, varied from 27° in Ireland S., and 28° in England S.W., and Scotland E., to 33° in England N.W., and to 39° in Channel Islands.

Rainfall exceeded the mean in all districts except Scotland N.; in most of the western districts and in Scotland E. the excess was considerable.

Bright Sunshine was very little prevalent, but exceeded the mean in Ireland and in England S.W. The percentage of the possible amount of duration ranged from 31 in Ireland S. to 11 in England S. and to only 1 in Scotland E. and England N.E.

Barometer and Wind.—During the whole of this week pressure was highest over Scandinavia while depressions advanced over our south-western and western coasts from the Atlantic. Some of these disturbances were deep on their appearance, but became much modified during their passage over us, and finally dispersed over the North Sea. Strong winds or gales from between South-East and South-West were consequently very general, the gales being very severe at times in the extreme south-western parts of England.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 295 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	39	44·7	40·3	42·6	+ 2·8	11	5	6	0·81	−0·19	*	*	*	*
	Stornoway	48	33	46·3	36·0	41·4	+ 1·6	12	26	7	1·11	−0·17	2·4	− 3·2	5	− 8
	Wick	47	36	45·3	39·9	42·7	+ 4·1	14	6	5	1·67	+0·94	*	*	*	*
	Lairg Ꞩ	44	30	41·7	35·0	38·5	+ 2·4	0	25	6	0·71	−0·12	*	*	*	*
	Glencarron Ꞩ	48	30	44·4	34·7	39·7	+ 1·7	7	28	5	0·82	−1·42	*	*	*	*
	Fort Augustus Ꞩ	49	29	45·8	35·3	40·8	+ 1·8	11	28	? 5	0·68	−0·44	0·9	− 0·6	2	− 2
	Fort William Ꞩ	50	35	46·5	39·2	43·0	+ 4·0	19	8	6	1·01	−1·07	1·7	− 0·6	4	− 2
1. SCOTLAND, E.	Nairn	48	29	43·7	33·4	38·8	+ 0·8	5	33	6	0·82	+0·34	*	*	*	*
	Aberdeen	47	30	44·9	38·4	41·8	+ 3·7	8	16	6	2·31	+1·56	1·9	− 7·1	4	−16
	Braemar Ꞩ	49	28	41·8	32·7	37·4	+ 2·4	0	32	6	1·06	+0·36	0·2†	− 4·6†	0†	−10†
	Ochtertyre Ꞩ	45	31	42·7	35·6	39·3	+ 1·8	2	24	6	1·87	+0·92	*	*	*	*
	Leith Ꞩ	48	34	45·0	37·4	41·4	+ 1·6	8	20	5	0·72	+0·24	*	*	*	*
	Marchmont Ꞩ	45	31	42·3	35·1	38·8	+ 1·6	1	25	7	1·06	+0·28	0·5	− 7·3	1	−16
2. ENGLAND, N.E.	Alnwick Castle	50	31	45·1	37·9	41·6	+ 2·7	9	17	5	2·09	+1·35	*	*	*	*
	Durham	47	31	43·7	35·7	39·9	+ 1·7	5	25	7	0·50	−0·10	0·7	− 9·1	1	−19
	Shields	49	34	45·6	38·7	42·3	+ 3·2	16	9	5	0·59	+0·05	*	*	*	*
	Scarborough Ⓜ	47	34	44·7	38·0	41·5	+ 1·6	8	17	5	0·58	−0·22	*	*	*	*
	York	48	31	45·0	37·1	41·2	+ 2·8	8	20	7	0·72	−0·23	0·8	− 4·2	2	−10
	Spurn Head	46	34	44·6	38·9	41·9	+ 2·3	7	14	5	0·47	−0·01	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	48	31	45·7	37·5	41·8	+ 3·5	10	20	7	0·96	+0·36	1·5	− 7·6	3	−15
	Yarmouth	45	34	44·1	37·7	41·0	+ 2·0	6	17	7	0·52	−0·09	*	*	*	*
	Geldeston	48	33	45·7	37·9	42·0	+ 2·8	10	11	7	0·80	+0·23	3·5	− 7·6	6	−16
	Cambridge	50	30	46·9	34·4	40·9	+ 2·3	14	32	5	0·65	+0·25	0·5	− 9·4	1	−18
	Rothamsted	48	31	46·4	34·9	40·9	+ 2·3	12	30	6	0·87	+0·31	0·3	− 9·4	1	−17
4. MIDLAND COUNTIES	Harrogate Ⓜ	47	33	43·0	37·1	40·2	+ 2·3	3	19	7	0·91	?	0·0	?	0	?
	Bawtry (Hesley Hall)	48	31	45·3	36·3	41·0	+ 2·5	9	24	5	0·39	−0·09	*	*	*	*
	Loughborough	49	33	46·0	36·4	41·4	+ 2·2	11	24	4	0·83	+0·33	*	*	*	*
	Stamford (Duddington)	48	32	46·1	35·7	41·1	+ 2·4	11	26	7	0·82	+0·23	*	*	*	*
	Cheadle Ⓜ	48	32	44·0	34·9	39·6	+ 1·9	6	27	7	1·16	+0·48	*	*	*	*
	Shirley (near Solihull)	48	31	44·9	35·1	40·2	+ 1·5	8	28	6	0·35	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ	50	31	46·3	36·2	41·5	+ 1·8	12	25	6	0·69	+0·11	*	*	*	*
	Cirencester	49	30	47·0	33·7	40·6	+ 2·2	14	34	6	0·56	−0·07	9·8	+ 0·8	18	+ 1
	Oxford	49	32	47·4	37·0	42·4	+ 2·7	24	14	6	0·75	+0·24	2·8	− 6·4	5	−13
5. ENGLAND, S.	London	49	31	47·3	36·6	42·2	+ 2·2	24	15	6	0·27	−0·20	0·7†	− 4·1†	1†	− 9†
	North Foreland	50	35	47·6	38·4	43·2	+ 2·2	24	10	7	0·46	?	*	*	*	*
	Dungeness	50	36	47·9	41·1	44·6	+ 3·0	22	3	6	0·44	−0·24	*	*	*	*
	Hastings (St. Leonards)	50	35	48·3	38·6	43·6	+ 1·9	25	10	6	0·66	−1·01	6·1	− 6·8	11	−12
	Southampton	51	30	49·4	37·9	43·9	+ 2·7	31	11	7	0·91	+0·21	8·6	− 2·6	16	− 5
	Hurst Castle	50	34	49·0	41·6	45·5	+ 2·9	26	1	6	0·82	+0·18	*	*	*	*
	Stowell Ⓜ	50	33	47·9	37·7	43·0	+ 2·1	25	12	7	1·57	+0·77	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	47	36	44·5	38·8	41·8	+ 3·6	7	14	5	1·21	+0·31	0·0	− 3·7	0	− 8
	Ardrossan	48	36	45·9	38·4	42·3	+ 1·1	17	10	7	1·39	+0·59	*	*	*	*
	Glenlee Ꞩ	48	32	44·9	36·7	41·0	+ 2·4	8	22	7	1·58	+0·12	*	*	*	*
	Douglas (Isle of Man)	49	33	46·2	37·4	42·0	− 0·3	12	13	7	2·39	+1·37	6·9	− 3·1	13	− 7
7. ENGLAND, N.W.	Stonyhurst	49	36	44·6	38·2	41·5	+ 2·4	7	16	5	1·19	+0·13	1·2	− 5·7	2	−11
	Blackpool Ⓜ	50	33	46·2	36·7	41·6	+ 1·7	12	23	7	1·10	+0·37	0·0	− 5·6	0	−12
	Manchester (Prestwich)	50	33	46·6	37·3	42·1	+ 3·1	20	13	7	1·05	+0·23	0·6	?	1	?
	Liverpool Obsy. (Bidston)	50	35	45·9	37·9	42·1	+ 1·9	18	11	7	0·83	+0·21	*	*	*	*
	Llandudno Ⓜ	50	37	46·1	39·3	42·8	+ 0·2	17	8	7	1·81	+1·11	*	*	*	*
	Holyhead	49	38	47·0	40·7	44·0	− 0·3	19	4	6	1·79	+0·94	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	28	46·3	34·1	40·4	− 1·0	12	32	7	1·96	+0·74	*	*	*	*
	Pembroke	50	39	48·3	42·0	45·3	+ 0·5	23	0	6	2·41	+1·49	12·6	+ 2·6	23	+ 2
	Clifton	50	37	47·4	40·2	43·9	+ 3·5	21	5	6	0·77	+0·05	*	*	*	*
	Arlington (N. Devon)	50	34	46·9	37·4	42·3	+ 0·7	21	13	7	1·85	+0·50	*	*	*	*
	Cullompton Ⓜ	50	31	48·1	37·3	42·9	+ 0·9	26	13	7	1·19	+0·40	8·4	0·0	15	0
	Falmouth	51	38	49·3	40·4	45·0	− 0·3	28	4	7	2·09	+0·39	20·1	+ 7·6	36	+13
	Plymouth	51	35	49·2	40·3	44·9	+ 1·1	27	5	7	1·39	+0·49	15·2	+ 4·0	27	+ 6
	Prawle Point	50	38	48·4	41·1	44·9	+ 1·0	24	3	7	0·85	+0·07	*	*	*	*
9. IRELAND, N.	Malin Head	47	27	45·7	39·6	42·8	+ 0·7	16	7	6	0·52	?	*	*	*	*
	Londonderry	49	33	45·1	35·2	40·4	0·0	9	28	7	1·12	+0·18	*	*	*	*
	Edenfel (Omagh)	47	30	44·4	33·3	39·1	+ 0·9	7	34	5	1·07	+0·27	*	*	*	*
	Belmullet	51	35	48·1	36·6	42·6	− 0·6	27	15	7	1·17	−0·11	*	*	*	*
	Markree Castle	48	30	46·6	34·7	40·9	+ 1·0	13	31	7	1·00	+0·07	13·1	+ 4·6	26	+ 9
	Armagh	48	33	45·5	34·8	40·4	+ 1·2	10	29	6	1·00	+0·40	14·0	+ 5·2	27	+ 9
	Donaghadee	49	32	46·0	37·6	42·0	− 0·1	11	12	6	1·57	+0·95	*	*	*	*
	Edgeworthstown	49	29	44·5	31·8	38·4	− 0·6	7	39	5	1·19	+0·32	*	*	*	*
10. IRELAND, S.	Dublin	51	33	47·1	37·0	42·3	+ 0·5	23	14	5	1·72	+1·24	15·5	+ 3·3	29	+ 5
	Parsonstown	50	28	46·9	32·7	40·1	− 0·1	14	38	6	1·18	+0·43	16·1	+ 5·0	30	+ 9
	Kilkenny	50	30	47·6	33·3	40·7	− 1·2	16	33	6	1·52	+0·83	*	*	*	*
	Roche's Point	52	35	49·3	38·6	44·2	− 0·3	30	10	5	1·45	+0·27	*	*	*	*
	Valencia	52	36	49·7	40·6	45·3	− 0·5	29	4	7	2·61	+1·33	17·6	+ 7·6	33	+13
	Killarney	52	27	48·4	34·9	41·9	− 1·2	18	31	7	2·67	?	*	*	*	*
	Foynes	50	39	47·5	38·2	43·0	+ 1·0	23	11	6	1·04	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	53	41	51·3	43·6	47·6	+ 0·5	39	0	6	1·74	+0·81	18·3	?	33	?
	Jersey	53	39	50·7	43·9	47·4	+ 2·3	38	0	6	0·89	+0·05	12·6	− 1·3	22	− 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

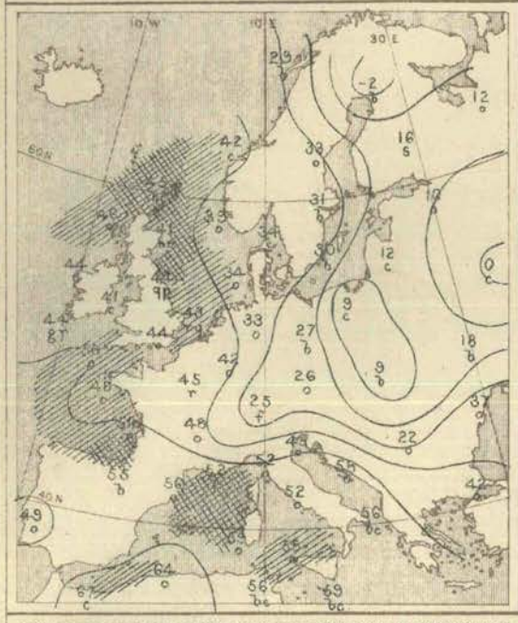
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College Westminster. For additional Reports of Sunshine see last page.

Sunday, 6th December.

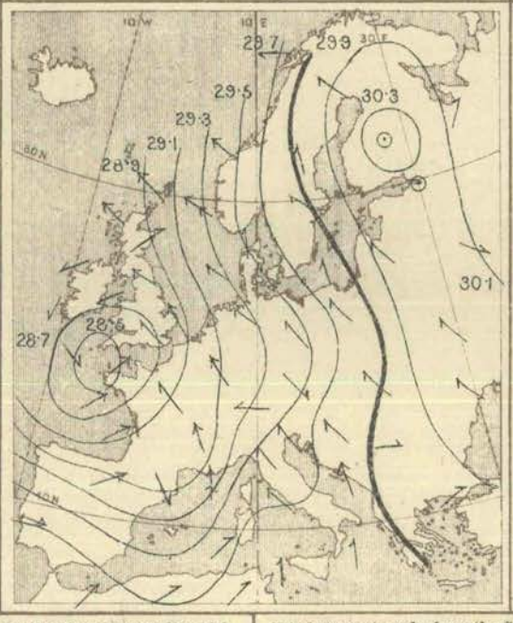
Temperature and Weather.

8 a.m.

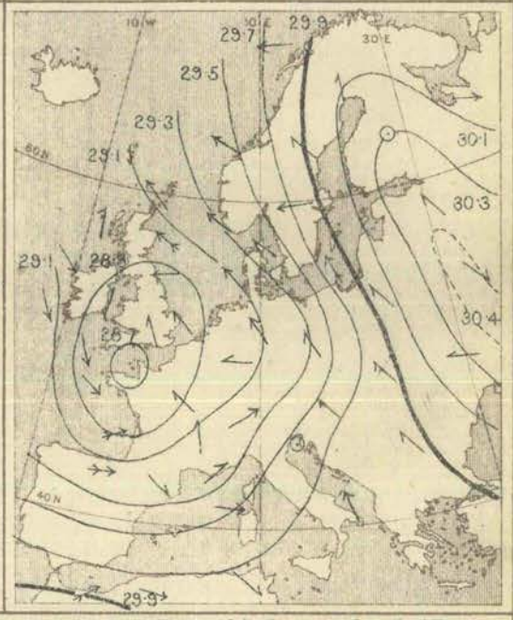


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and unsettled over our Islands and the Continent generally, with steady rain in the south-east of England and the northern parts of France, and with passing showers on our north-east coasts. Rain falling also at Breslau and Nice, and snow at Kuopio, Skagen, and Turin. Fine over the south of Sweden and the Gulf of Finland. Rain falling later over nearly the whole of western and southern Europe—heavily in places (3·6 ins. at Nice). Lightning seen in the south of France.

Temperature fallen in our Islands and their immediate neighbourhood, as well as in northern Russia, risen in Scandinavia and Denmark, changed irregularly elsewhere. Morning readings highest, 67° at Nemours, 64° at Algiers, 60° at Oran, and 59° at Cagliari and Malta; above 50° at the Mediterranean and Adriatic stations generally. Lowest, −2° Fahr. at Uleaborg, 0° zero at Moscow, and +9° at Neufahrwasser, Lemberg, and Kharkov; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 45° and upwards in most parts of the United Kingdom, and touching 50° on some parts of our southern coasts; exceeding 55° in the extreme south of France.

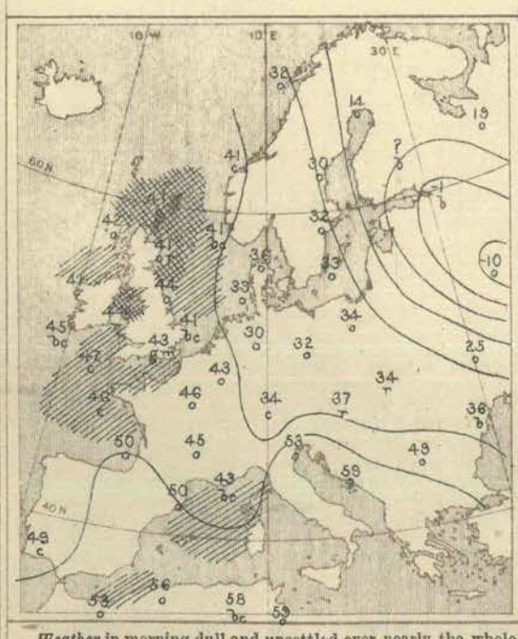
Wind strong to gale from the Southward or South-Westward in the west and south of France, moderate to strong from the South-Eastward over the eastern parts of Great Britain, and also over the northern and central parts of the Continent generally; Easterly over the northern parts of England and Ireland; Northerly in the south of Ireland. Southerly over Italy, Austria, and the south of Russia. Subsequently veering to the Westward over the Bay of Biscay, and increasing to a gale from the Northward at the mouth of the English Channel.

Barometer highest, 30·2 ins. and upwards over Finland; 30·1 ins. and upwards in an anticyclone covering the whole of Russia and the Black Sea. Lowest, 28·5 ins. and less in a well-marked depression having its centre at the mouth of the English Channel. Anticyclone subsequently increasing considerably in height. Depression moving slowly eastwards along Channel, and beginning to disperse gradually.

Monday, 7th December.

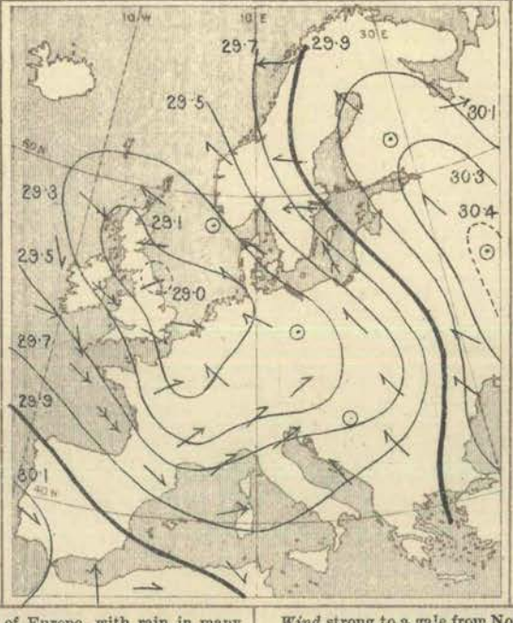
Temperature and Weather.

8 a.m.

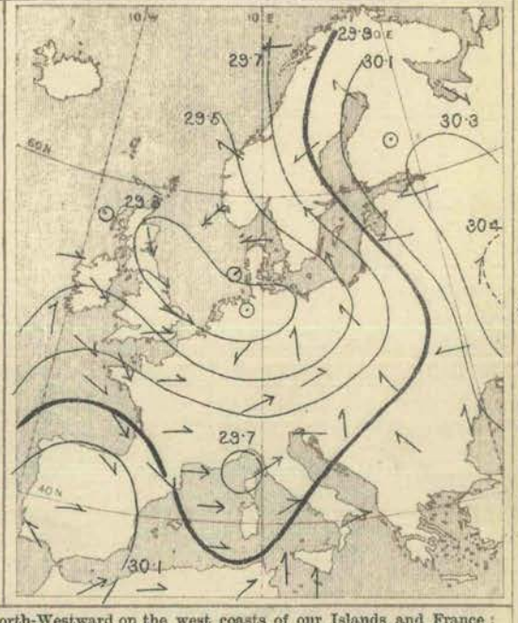


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and unsettled over nearly the whole of Europe, with rain in many parts of Great Britain, as well as in the north of France and Poland; snow reported at Uleaborg, and also at Prague. Considerable improvement taking place later in the west and south of our Islands, but steady rain falling in the north-east; rain occurring also in most parts of western, central, and southern Europe, and snow in the south of Scandinavia.

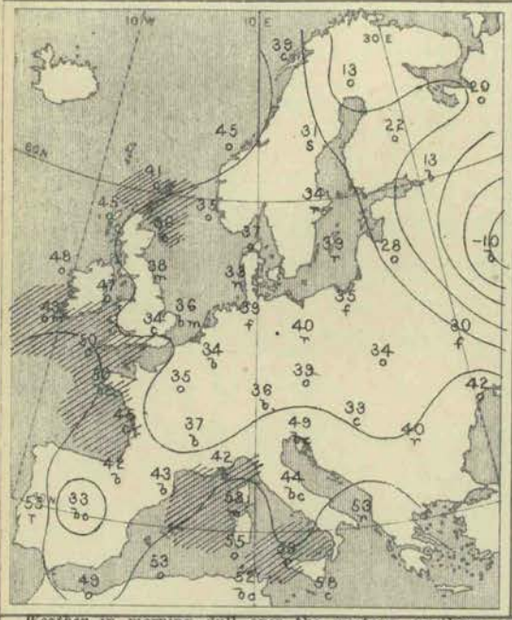
Temperature fallen in most of the western and northern countries, but risen elsewhere, rapidly over Austria and eastern Germany. Morning readings highest, 59° at Lesina and Sfax, 58° at La Calle, and 56° at Algiers (Spanish and Italian reports all wanting). Lowest, −10° Fahr. at Moscow, −1° at St. Petersburg, +7° at Kharkov, and 14° at Haparanda; below the freezing point over Sweden and Russia generally. Daily maxima below 45° at most of our own northern and eastern stations, but thermometer touching 50° on some parts of our south-west coasts; exceeding 55° in the south of France, and exceeding 60° over southern Italy. Frost occurring over Great Britain at night.

Wind strong to a gale from North-Westward on the west coasts of our Islands and France; light to fresh from the Westward in the east of England, and from the South-Westward over central France. Easterly or South-Easterly over all the more northern and eastern parts of the Continent, with a gale in the south of Sweden. Calm or South-Westerly in Austria; varying between South and West in Algeria. Gale moderating later on our western coasts, and wind backing to the Southward on the west of Ireland; wind subsiding also in the south of Sweden.

Barometer highest, 30·4 ins. and upwards in an anticyclone over the central and southern parts of Russia; 30·1 ins. and upwards in another system lying off the south-west of Spain. Lowest, 29·0 ins. and less in a small area off the Northumberland coast; 29·1 ins. and less in a complex depression covering all the more northern and eastern parts of our Islands, with the Netherlands and the north-east of France. Depression moving eastwards later and partially filling up; new disturbance beginning to approach our western coasts in evening; another depression forming over the Gulf of Genoa.

Tuesday, 8th December.

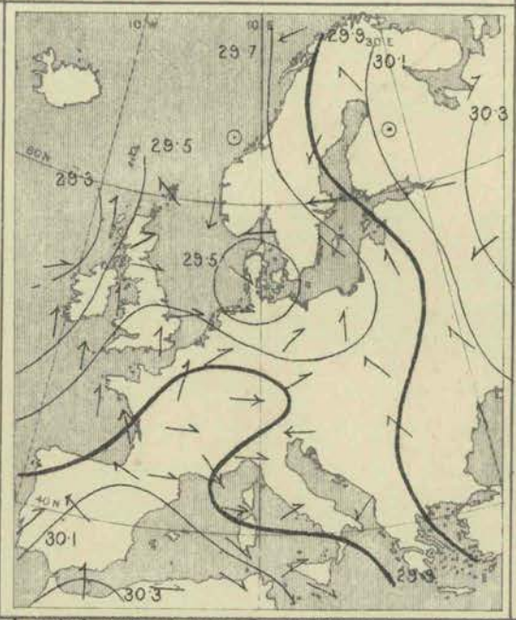
Temperature and Weather. 8 a.m.



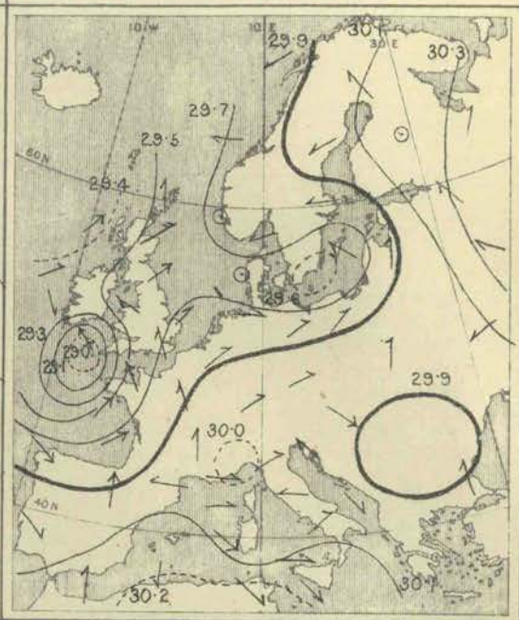
Weather in morning dull over the western, northern, and central parts of Europe generally, but fine on the east coasts of Great Britain; showers reported at some of the English Channel stations, steady rain over Denmark, north Germany, and the south of Sweden, and snow at Hernösand and Karlstad. Fine in many parts of southern Europe, but rainy in the south of Italy, as well as at Lisbon and Hermanstadt. Rain falling later over England and Ireland, and also at several of the French, Spanish, and Italian stations.

Temperature fallen in the more northern and eastern parts of Great Britian, as well as in France and Italy, but risen elsewhere. Morning readings highest, 58° at Malta, 55° at Lisbon and Cagliari, and 53° at Brindisi; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, −10° Fahr. at Moscow, +13° at Haparanda and St. Petersburg, 20° at Archangel, and 23° at Kharkov; below the freezing point over Russia and the north of Sweden generally, as well as in the central parts of Scotland. Rising during day to 45° and upwards in most parts of our Islands, and to 50° and upwards on our south-west coasts; exceeding 55° over southern Europe generally, and reaching 61° at Palermo and Malta.

Barometer and Wind. 8 a.m.



6 p.m.

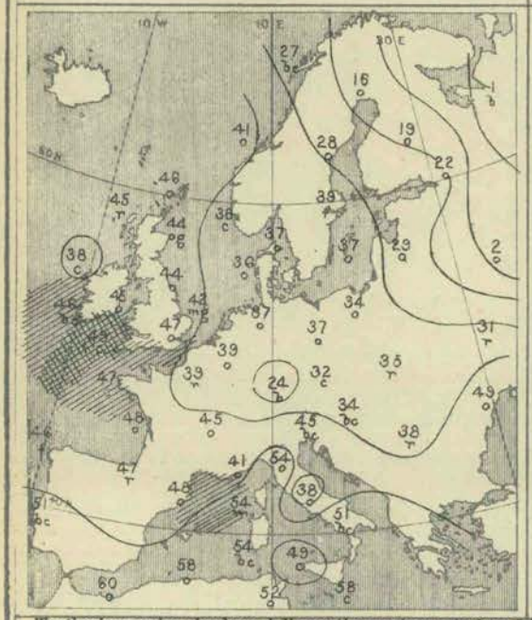


Wind Southerly or South-Westerly over the greater part of the United Kingdom and France, and fresh or strong in force on our south-west coasts. Light to moderate from the Westward or South-Westward over the central countries generally; Easterly or North-Easterly over Scandinavia and northern Russia, and strong in force in places. South-Easterly in the south of Russia, variable in Italy. Subsequently backing to the South-Eastward over England and the east of Ireland, increasing to a whole gale at Scilly, and to a moderate or fresh gale over the western parts of the Channel generally.

Barometer highest, 30·3 ins. and upwards in a large anticyclone over northern and central Russia; 30·2 ins. and upwards in another system over Algeria and the southern and central parts of Spain. Lowest, 29·3 ins. and less in a depression off our extreme north-west coasts; 29·5 ins. and less in a shallow system over Denmark. Depression in west subsequently moving northwards, but new and much deeper disturbance advancing to the mouth of the English Channel, where the barometer fell rapidly.

Wednesday, 9th December.

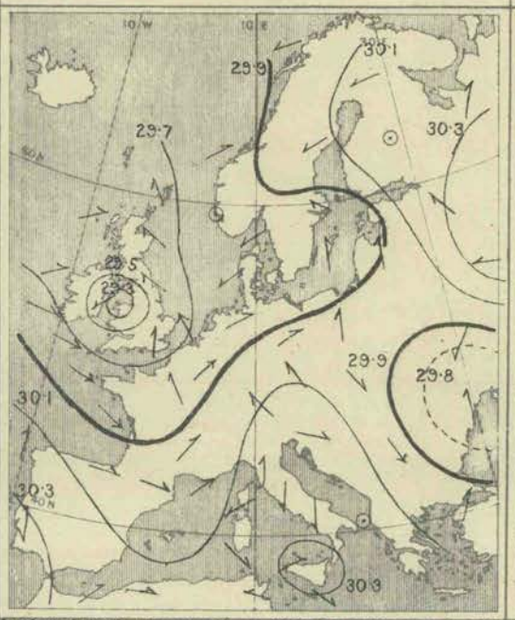
Temperature and Weather. 8 a.m.



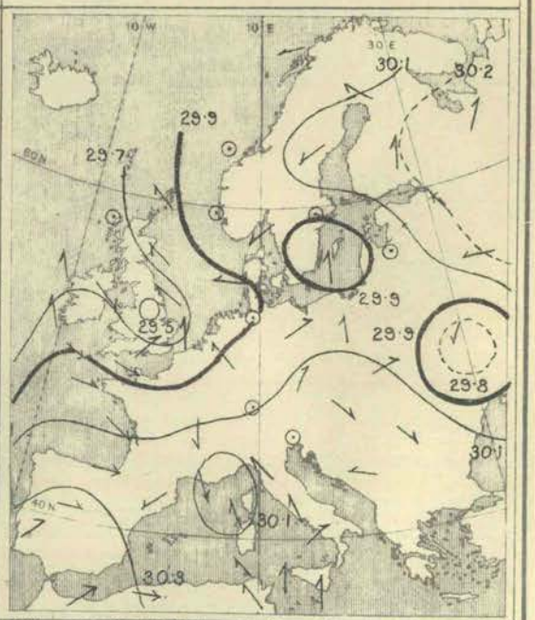
Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in several parts of Great Britain and France, as well as in the south of Russia and the neighbouring portions of Austria. Fine in the south of Ireland, and also in Spain, Italy, Germany, and the west of Austria. Sky clearing later at many of the western stations in our Islands and France, but weather remaining dull and unsettled over Great Britain as a whole. Rain and snow setting in over Sweden, and heavy rain falling in the south of France.

Temperature risen in the north and east of Great Britain, and also in France, Norway, and Russia, fallen in most other localities. Morning readings highest, 60° at Oran, 58° at Algiers and Malta and 57° at Nemours; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, −1° Fahr. at Archangel, +2° at Moscow, 16° at Haparanda, and 19° at Kuopio; below the freezing point over the southern parts of Germany. Rising during day to 45° and upwards over the United Kingdom generally, and to 50° and upwards on many parts of our west and south-west coasts. Exceeding 55° over southern Italy, and reaching 64° at Palermo.

Barometer and Wind. 8 a.m.



6 p.m.



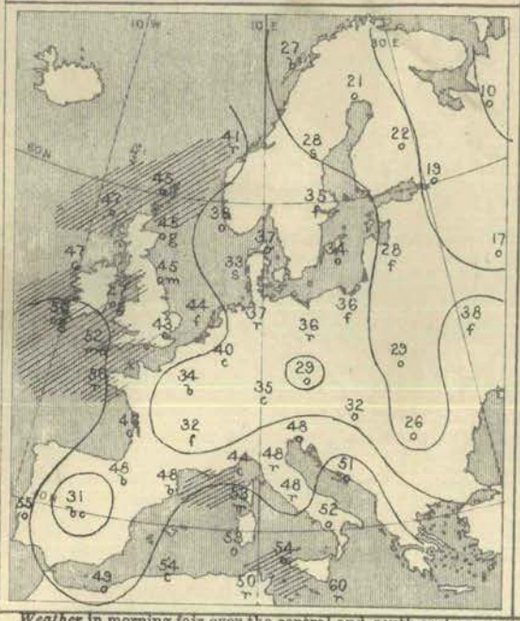
Wind strong to a gale from the Westward or North-Westward in the south-west of our Islands, fresh from the same quarter in the west of France. Moderate to fresh from the Southward or South-Eastward over the Netherlands and the eastern parts of Great Britain and France. South-Westerly over north Germany; Southerly over the Baltic; South-Easterly in Finland; Easterly or North-Easterly over the greater part of Scandinavia. Variable over Italy and Austria; Southerly in the extreme south of Russia. Subsequently veering to the South-Westward in the south-east of England, but backing to the Southward or South-Eastward in the west of Ireland.

Barometer highest, 30·3 ins. and upwards in a large anticyclone lying over the northern and central parts of Russia, and also in another system off the south-west of Spain. Lowest, 29·3 ins. and less in a depression over North Wales; 29·8 ins. and less in two other systems—one lying over Denmark and the south of Sweden, and the other over the extreme south of Russia. Welsh depression subsequently advancing eastwards across England and partially filling up; new disturbance beginning to approach the Irish coasts in evening.

Thursday, 10th December.

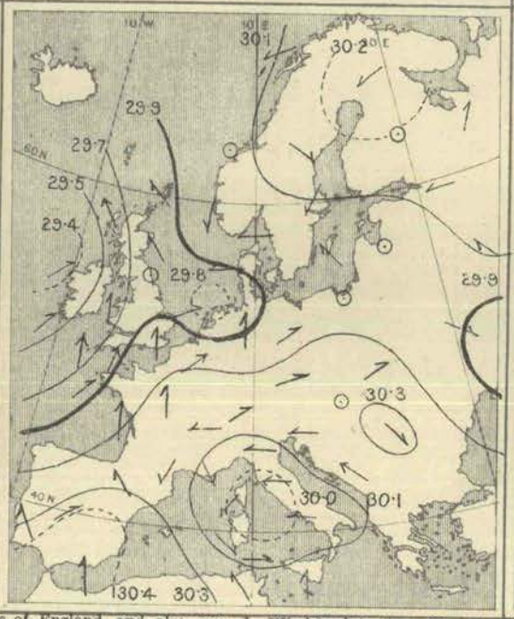
Temperature and Weather.

8 a.m.

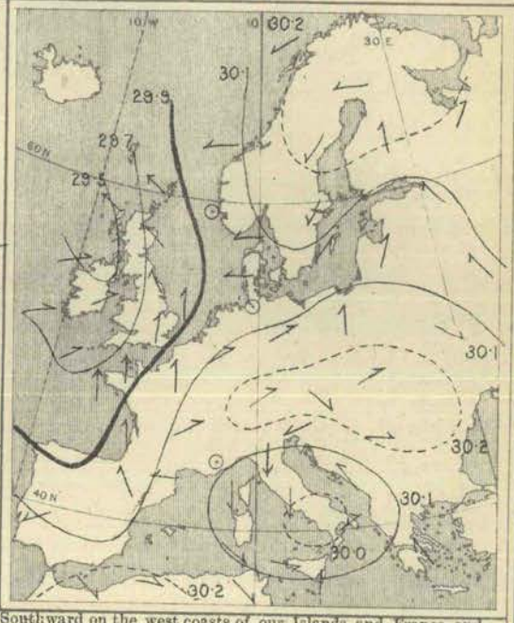


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over the central and south-eastern parts of England, and also over Belgium, France, and Spain; dull elsewhere, with rain on our own west and south-west coasts, as well as over north Germany and Italy; snow reported over central Sweden and the Gulf of Finland. Rain falling later over the whole of our Islands and their immediate neighbourhood—heavily at several of our western and northern stations. Large amounts reported also in the south of Italy.

Temperature risen in the west and north of our Islands, changed irregularly elsewhere. Morning readings highest, 60° at Malta, 55° at Lisbon, and 54° at Palermo, Algiers, and Sfax; touching 50° or more on our own south-west coasts. Lowest, 10° at Archangel, 17° at Moscow, 19° at St. Petersburg, and 21° at Haparanda; below the freezing point in many parts of northern and eastern Europe. Rising during day to 50° and upwards at several of our western and southern stations; exceeding 55° in most parts of southern Europe, and exceeding 60° in the south of Italy.

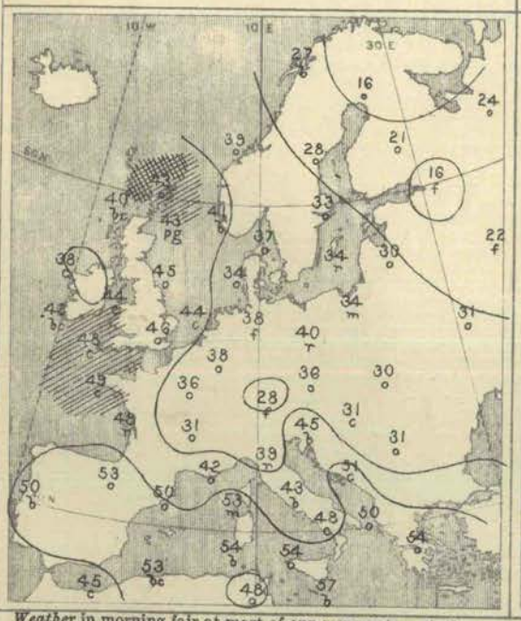
Wind fresh to strong from the Southward on the west coasts of our Islands and France, and from the South-Eastward in the north of Scotland. Light to moderate from the South-Westward over the eastern parts of England, the Netherlands, and Germany; varying between East and North over Scandinavia and Denmark. Light and variable over Austria and the south of Russia; Easterly in Italy. Subsequently increasing to a gale from the South-Eastward in the north-east of Scotland, but veering to the Westward in Ireland, and falling light.

Barometer highest, 30·4 ins. and upwards in an anticyclone over the south of Spain; 30·3 ins. and upwards in another system over Austria; 30·2 ins. and upwards in a third over the northern parts of Sweden and Finland. Lowest, 29·4 ins. and less in a depression off the north-west of Ireland; 29·8 ins. and less in another system off the Dutch coasts; 29·9 ins. and less in a third over the south of Russia; 30·0 ins. and less in a fourth over Sardinia and western Italy. Depression off Irish coasts subsequently moving north-eastwards; secondary disturbances advancing over England.

Friday, 11th December.

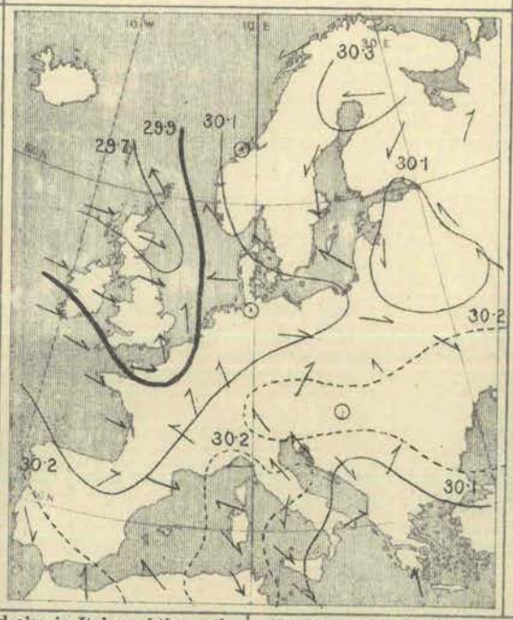
Temperature and Weather.

8 a.m.

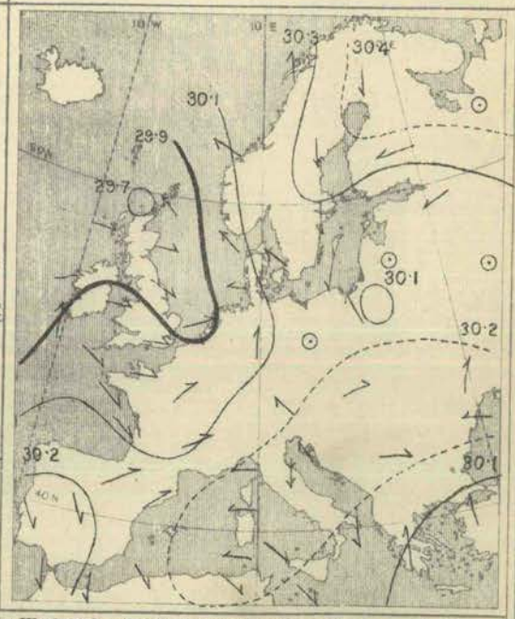


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair at most of our own western stations, and also in Italy and the south of France. Cloudy or dull elsewhere, with rain in isolated parts of Great Britain, as well as at Wisby, Copenhagen, Berlin, and Rochefort. Snow reported over the Gulf of Finland, and fog at many of the Russian and south German stations. Rain falling later over western and northern Europe generally, heavily in the south of Ireland, but sky clearing over Great Britain towards evening. Snow occurring at Moscow.

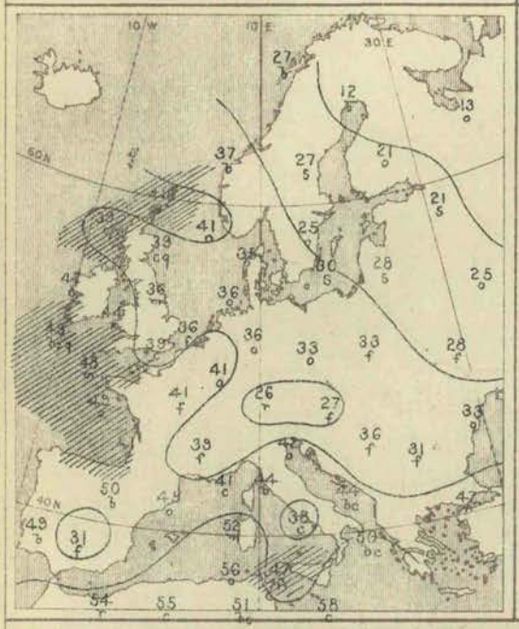
Temperature fallen in our Islands and over southern Europe generally, changed irregularly elsewhere. Morning readings highest, 57° at Malta, and 54° at Cagliari, Palermo, and Patras. Lowest, 16° at Haparanda and St. Petersburg, 17° at Uleaborg, and 21° at Kuopio; below the freezing point over nearly the whole of Sweden, Russia, and Austria, and also in the east of France. Rising during day to 45° and upwards over the United Kingdom generally, and to 50° and upwards on our extreme south-west coasts; exceeding 55° over the southern parts of Spain and Italy. Frost occurring over Great Britain at night.

Wind light to moderate from the Westward or North-Westward in the west and north of our Islands and the west of France; Southerly over the south-east of England and the neighbouring parts of the Continent; South-Easterly or Easterly on the eastern shores of the North Sea. Northerly or North-Easterly over Sweden and Finland; South-Westerly or Westerly over Germany and the south of Russia; calm or variable in Austria; North-Easterly or Easterly over the greater part of Italy. Subsequently veering to the Westward over England, but backing to the South-Westward or Southward in Ireland.

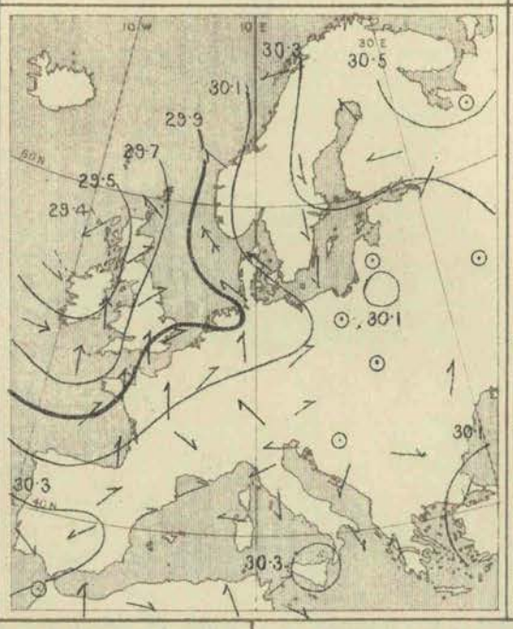
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Gulf of Bothnia and the neighbouring parts of Sweden and Finland; 30·2 ins. and upwards in three other systems lying over various parts of southern and eastern Europe. Lowest, 29·7 ins. and less in a depression lying over the north of Scotland; secondary disturbances reported over various parts of England. Depressions subsequently filling up, but fresh disturbance approaching our western coasts at night.

Saturday, 12th December.

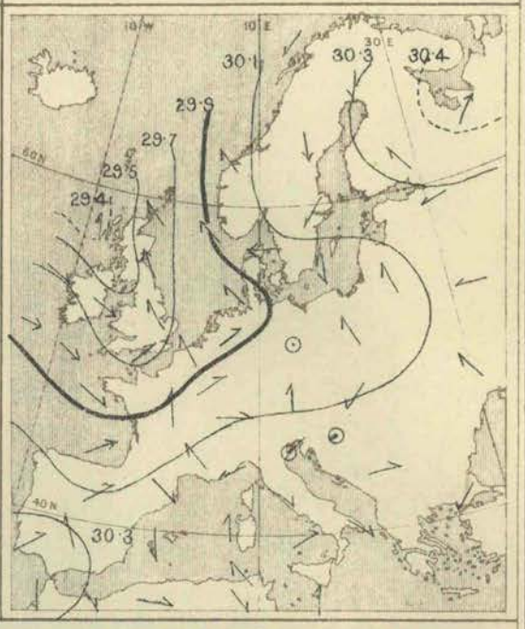
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair on the east coast of Great Britain, and also in the west and south of Ireland; dull and rainy in most other parts of our Islands. Cloudy and unsettled over the Continent as a whole, with fog over Austria, south Germany, and the central parts of France and Spain; rain falling at several of the Danish and German stations, as well as at Rochefort, and snow at Hernösand, St. Petersburg, and Riga. Fine and bright in the west of Norway, and also in several parts of Spain and Italy. Rain falling later over nearly the whole of Europe—heavily at Rome; snow reported over central Russia.

Temperature fallen in most countries, but risen in Ireland, as well as in central France and the extreme south of England. Morning readings highest, 58° at Malta, 56° at Cagliari, and 55° at Algiers; above 50° at several of the Mediterranean stations. Lowest, 12° at Haparanda, 13° at Archangel, and 21° at Kuopio and St. Petersburg; below the freezing point in many parts of northern, eastern, and central Europe. Daily maxima below 45° at most of our own eastern and central stations, but thermometer rising to between 48° and 52° on our south-west coasts. Reaching 55° or more in several parts of southern Europe.

Wind Southerly over Great Britain and France, and strong in force on our western coasts; moderate to strong from the Westward in the west and south of Ireland. Light from the South-Westward over Germany and the Netherlands; South-Easterly on the eastern shores of the North Sea with a gale at Skudesnaes. Easterly in Finland; Northerly in Sweden, light and variable over southern Europe generally. Subsequently veering to the Westward or North-Westward on all the west coasts of our Islands and France; increasing to a gale from the South-Eastward in the north and north-east of Scotland.

Barometer highest, 30·5 ins. and upwards in the extreme north of Russia; 30·3 ins. and upwards over the central and southern parts of Spain; 30·1 ins. and upwards over all but the north-western parts of Europe. Lowest, 29·4 ins. and less in a depression lying off the west of Scotland; "V" shaped secondary systems reported over Ireland and the neighbouring channels. Main disturbance subsequently moving northwards, but secondary systems advancing over England; barometer rising briskly on our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week, when barometric pressure was highest over Russia, and relatively high to the southward of Spain, the weather in the western countries was influenced by two depressions which appeared off our south-west coasts, and which afterwards moved north-eastwards across England to the North Sea, where they filled up. In the first of these the barometer was very low (28·5 ins. and less), but the surrounding gradients were slight, and the wind was therefore of no great strength. In the second the minimum pressures were at least half an inch higher, but the gradients were far steeper, and on the night of the 8th a gale from the Southward prevailed on several parts of our south and south-west coasts.

After the 8th the anticyclone over Russia moved somewhat to the northward, while the second high pressure system to the southward of Spain also spread in a similar direction, and increased in height. For the remainder of the week the type of distribution was in fact very complex, the weather in our Islands and their neighbourhood being affected partly by a series of depressions which moved northwards along our western coasts, and to a greater extent by "V" shaped secondary disturbances which advanced eastwards directly over us. The winds were often strong to a gale in force, their direction being mainly from the South-Westward in the south, but from the South-Eastward in the north, and the weather was extremely changeable, with frequent falls of rain in nearly all districts. Snow occurred on repeated occasions over Sweden and northern Russia.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·0	− 6·0	0	− 12	SOUTHPORT	3·0	?	6	?
OSWALDKIRK (Yorkshire)	0·0	− 8·4	0	− 16	MANCHESTER (Oldham Road)	0·0*	?	0*	?
WORKSOP	0·3	− 7·5	1	− 14	COLWYN BAY	3·2	?	6	?
THURCASTON (Leicestershire)	2·1	− 5·2	4	− 10	NEWQUAY	15·7	+ 4·4	28	+ 6
MARGATE	5·4	− 5·7	10	− 10	TORQUAY	12·7*	+ 1·0	23*	+ 1
WESTBOURNE (Sussex)	9·1*	− 1·8	17*	− 3	ARLEY COTTAGE (County Cavan)	12·5	+ 3·0	25	+ 7
BRIGHTON	8·2	− 2·8	15	− 6	GUERNSEY	11·5*	+ 1·3	20*	+ 2
EASTBOURNE	5·3	− 6·7	10	− 13					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 51.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 19TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 302.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	44	19	37·3	28·1	32·9	5 below	0	− 7	64	+34	2134	+165	560	−247
	1. SCOTLAND, EAST	45	20	37·8	28·9	33·5	3 below	0	− 6	60	+22	2436	+ 80	714	−164
	2. ENGLAND, N.E.	46	24	39·2	31·1	35·3	3 below	0	− 8	47	+15	2699	+129	546	−158
	3. ENGLAND, EAST	46	23	38·4	30·0	34·4	3 below	0	− 9	53	+16	3038	+ 69	673	−125
	4. MIDLAND COUNTIES	44	22	37·1	30·2	33·8	4 below	0	−10	57	+20	2992	+ 50	687*	−133
	5. ENGLAND, SOUTH	48	22	40·1	31·4	35·9	4 below	0	−15	43	+16	3429	+162	422	−167
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	45	24	38·6	29·8	34·4	5 below	0	−12	53	+29	2671	+157	457*	−148
	7. ENGLAND, N.W.	47	27	40·5	33·4	37·2	3 below	0	−12	34	+ 9	2973	+217	392	−183
	8. ENGLAND, S.W.	49	15	41·0	32·7	37·0	5 below	0	−19	35	+17	3223	+221	344	− 91
	9. IRELAND, NORTH	47	16	40·2	30·4	35·5	4 below	0	−13	46	+23	2807	+161	386	−135
	10. IRELAND, SOUTH	49	19	40·6	31·7	36·3	6 below	0	−21	40	+22	3267	+221	287	−110
	—CHANNEL ISLANDS	50	33	45·9	39·0	42·6	3 below	17	−14	8	+ 3	3914	+320	57	−107

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 302.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	5	8 less	241	+ 1	53·0	+ 2·3	8	+ 5	17	+ 9	983	− 66	22	− 2
	1. SCOTLAND, EAST	5	6	0 (average)	203	+ 8	28·4	− 3·8	6	− 1	13	− 1	1237	− 31	28	− 1
	2. ENGLAND, N.E.	6	9	3 more	188	+ 4	24·2	− 1·7	15	+ 7	30	+14	1231	− 37	28	− 1
	3 ENGLAND, EAST	5	3	2 less	180	− 1	24.2	− 1·5	9	− 1	18	− 1	1480	− 39	34	− 1
	4. MIDLAND COUNTIES	4	3	3 less	175	− 2	23·8*	− 3·9	9	0	17	− 2	1329	− 20	31	0
	5. ENGLAND, SOUTH	3	8	2 more	164	− 8	25·1	− 3·5	8	− 3	14	− 6	1584	− 5	36	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	12 less	206*	+ 1	42·0*	− 6·5	15	+ 8	31	+18	1335	0	31	0
	7. ENGLAND, N.W.	3	3	5 less	191	− 2	33·0	− 1·6	6	− 1	13	− 2	1244	+ 9	31	0
	8. ENGLAND, S.W.	4	13	4 more	175	−21	31·8	− 7·2	15	+ 4	27	+ 6	1734	+ 96	40	+ 2
	9. IRELAND, NORTH	4	5	4 less	217	− 6	37·4	+ 0·4	19	+11	39	+23	1230	− 29	28	− 1
	10. IRELAND, SOUTH	2	9	0 (average)	188	−14	34·4	− 3·8	18	+ 7	35	+14	1433	+ 1	33	0
	—CHANNEL ISLANDS	7	12	3 more	197	−12	29·1	− 4·1	13	− 2	24	− 4	1906	+ 17	44	+ 1

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued mild and rainy during the first day or two of the period, but subsequently became cold, with slight falls of hail, sleet or snow.

Temperature was below the mean, the deficit ranging from 3° to 4° over Great Britain, and from 4° to 6° in Ireland. The highest of the maxima were recorded on the 13th, and ranged from 50° in the Channel Islands to 44° in Scotland N. and the Midland counties. During the latter days of the period the maxima were only a few degrees above the freezing point at the inland and northern stations. The lowest of the minima, which occurred during the latter half of the week, varied from 15° in England S.W. and 16° in Ireland N., to 27° in England N.W., and to 33° in the Channel Islands.

Rainfall varied greatly in different parts of the Kingdom. It exceeded the mean in the Channel Islands, and England S.W. and S., as well as in England N.E.; in Scotland E. it just equalled the mean, but was less than the normal in the other districts. In Scotland W. the fall was extremely slight.

Bright Sunshine was much more prevalent than during the preceding week, and exceeded the mean in nearly all the "grazing districts," as well as in Scotland N. and England N.E. The percentage of the possible amount of duration ranged from 39 in Ireland N., 35 in Ireland S., 31 in Scotland W., and 30 in England N.E., to 14 in England S., and to 13 in Scotland E. and England N.W.

Barometer and Wind.—At the commencement of the period a well-defined depression moved eastwards over the Channel and our southern coasts, producing Southerly to North-Westerly gales at many of our more southern stations, and Easterly winds in the north. As this system passed away the wind became light or moderate from the Northward, but a very shallow depression appearing in the far north, and subsequently moving very gradually southwards, caused the winds over the eastern parts of Great Britain to become Southerly or South-Westerly. By the end of the week this disturbance had dispersed, the barometer was rising very generally, and moderate Northerly breezes prevailed in all districts.

Earthquake shocks were experienced in many parts of England and Wales at about 5.30 a.m. on the 17th, but were more decided in the western and central counties than elsewhere.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 301 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	29	38·4	33·1	35·9	- 3·3	0	43	7	0·79	-0·19	*	*	*	*
	Stornoway	43	27	38·9	30·9	35·1	- 4·0	0	48	5	0·75	-0·53	8·4	+ 2·6	19	+ 6
	Wick	44	25	39·4	30·6	35·2	- 2·4	0	48	6	0·59	-0·13	*	*	*	*
	Lairg Ⓢ	39	20	35·6	24·5	30·3	- 6·3	0	82	6	0·56	-0·34	*	*	*	*
	Glencarron Ⓢ	39	19	35·6	25·3	30·7	- 5·9	0	79	3	0·53	-1·69	*	*	*	*
	Fort Augustus Ⓢ	40	20	37·1	25·2	31·4	- 6·6	0	74	4	0·18	-0·94	5·5	+ 3·9	12	+ 8
	Fort William Ⓢ	39	23	36·2	26·8	31·7	- 7·3	0	72	4	0·17	-1·93	8·8	+ 6·3	19	+13
1. SCOTLAND, E.	Nairn	39	22	37·7	27·3	32·7	- 4·8	0	65	5	0·45	+0·01	*	*	*	*
	Aberdeen	42	28	37·3	32·6	35·0	- 2·5	0	49	7	1·18	+0·48	8·6	- 0·4	19	- 1
	Braemar Ⓢ	45	20	36·4	25·5	31·2	- 3·0	0	76	5	0·25	-0·44	4·0†	- 0·8†	9†	- 1†
	Ochtertyre Ⓢ	45	24	39·1	27·4	33·5	- 3·2	0	60	2	0·28	-0·66	*	*	*	*
	Leith	43	30	39·1	31·9	35·6	- 3·5	0	45	3	0·55	+0·12	*	*	*	*
	Marchmont Ⓢ	44	25	37·4	28·6	33·2	- 3·1	0	62	7	0·94	+0·24	6·8	- 0·7	14	- 2
2. ENGLAND, N.E.	Alnwick Castle	43	29	39·0	31·9	35·6	- 2·5	0	45	6	1·39	+0·69	*	*	*	*
	Durham	44	27	38·5	29·3	34·1	- 3·0	0	55	6	1·47	+0·85	15·5	+ 5·5	32	+12
	Shields	43	30	40·9	33·0	37·1	- 1·5	0	34	7	1·32	+0·80	*	*	*	*
	Scarborough Ⓜ	43	26	39·1	30·4	34·9	- 3·7	0	50	4	0·45	-0·16	*	*	*	*
	York	46	24	38·4	28·9	33·8	- 3·8	0	57	6	0·25	-0·25	15·2	+ 7·2	26	+14
	Spurn Head	45	29	39·1	33·0	36·2	- 2·9	0	41	5	0·50	+0·04	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	43	23	37·9	28·7	33·5	- 3·7	0	60	6	0·29	-0·26	11·3	+ 2·0	22	+ 4
	Yarmouth	42	27	38·4	31·1	34·9	- 3·2	0	50	5	0·26	-0·32	*	*	*	*
	Geldeston	44	24	39·7	29·8	35·0	- 3·3	0	49	6	0·34	-0·15	9·7	- 1·3	18	- 3
	Cambridge	46	25	38·4	30·1	34·4	- 3·3	0	53	4	0·16	-0·24	7·3	- 2·0	14	- 4
	Rothamsted	45	25	37·5	30·2	34·0	- 3·5	0	56	5	0·31	-0·24	9·4	- 0·4	18	0
4. MIDLAND COUNTIES	Harrogate Ⓜ	42	28	37·4	30·7	34·2	- 3·9	0	55	5	0·30	?	15·6	?	31	?
	Bawtry (Hesley Hall)	43	25	36·9	29·7	33·4	- 3·2	0	60	2	0·22	-0·27	*	*	*	*
	Loughborough	44	27	38·1	31·7	35·0	- 3·0	0	49	5	0·18	-0·34	*	*	*	*
	Stamford (Duddington)	41	25	36·4	30·1	33·4	- 3·7	0	60	7	0·26	-0·24	*	*	*	*
	Cheadle Ⓜ	42	24	35·4	29·0	32·3	- 4·6	0	68	4	0·20	-0·52	*	*	*	*
	Shirley (near Solihull)	42	25	35·4	30·2	32·9	- 5·3	0	64	4	0·27	?	*	*	*	*
	Churchstoke Ⓜ	43	26	38·2	30·1	34·3	- 3·9	0	54	4	0·40	-0·30	11·5	+ 3·0	22	+ 5
	Hereford Ⓜ	42	25	38·2	30·9	34·7	- 3·9	0	51	3	0·29	-0·23	*	*	*	*
	Cirencester	42	22	37·4	28·6	33·2	- 4·3	0	62	3	0·35	-0·27	3·4	- 6·1	6	-12
	Oxford	43	25	37·9	30·6	34·3	- 4·2	0	54	3	0·23	-0·23	6·1	- 3·5	12	- 6
5. ENGLAND, S.	London	44	25	38·0	31·3	34·8	- 4·4	0	50	3	0·38	-0·11	2·2†	- 2·6†	4†	- 5†
	North Foreland	45	26	41·3	32·4	37·0	- 2·9	0	35	3	0·71	?	*	*	*	*
	Dungeness	48	24	40·9	31·0	36·2	- 4·1	0	41	5	0·63	+0·01	*	*	*	*
	Hastings (St. Leonards)	45	25	40·4	30·3	35·7	- 5·3	0	44	4	1·01	+0·31	11·2	- 1·8	21	- 3
	Southampton	47	26	40·3	30·7	35·7	- 4·7	0	44	2	1·03	+0·31	3·4	- 7·8	6	-15
	Hurst Castle	47	27	41·0	33·6	37·5	- 3·3	0	32	3	0·81	+0·17	*	*	*	*
	Stowell Ⓜ	45	22	38·5	30·2	34·5	- 3·5	0	53	4	1·11	+0·36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	42	24	36·6	28·7	32·8	- 7·3	0	64	2	0·11	-1·94	*	*	*	*
	Glasgow	41	26	38·9	30·2	34·7	- 3·6	0	51	3	0·06	-0·84	11·3	+ 7·3	24	+16
	Ardrossan	43	29	40·0	32·0	36·2	- 4·5	0	41	2	0·03	-0·82	*	*	*	*
	Glenlee Ⓢ	43	20	36·5	26·2	31·6	- 6·1	0	73	1	0·13	-1·29	*	*	*	*
	Douglas (Isle of Man)	45	30	41·1	31·9	36·7	- 4·8	0	37	2	0·14	-0·91	18·4	+ 9·0	37	+19
7. ENGLAND, N.W	Stonyhurst	42	31	37·0	32·4	34·8	- 3·2	0	50	3	0·20	-0·87	9·4	+ 3·1	19	+ 7
	Blackpool Ⓜ	46	29	40·7	31·4	36·2	- 2·9	0	41	2	0·13	-0·59	6·0	- 5·8	0	-11
	Manchester (Prestwich)	47	27	42·5	30·8	36·9	- 1·1	1	41	3	0·13	-0·69	3·1	?	6	?
	Liverpool Obsy. (Bidston)	42	31	39·1	33·0	36·2	- 3·7	0	41	3	0·38	-0·22	*	*	*	*
	Llandudno Ⓜ	45	34	41·9	36·4	39·3	- 2·6	0	19	4	0·37	-0·33	*	*	*	*
	Holyhead	44	36	42·0	37·0	39·6	- 3·6	0	17	4	0·53	-0·33	*	*	*	*
8. ENGLAND, S.W.	Llandovery	44	15	38·3	25·1	32·0	- 6·3	0	70	5	0·84	-0·40	*	*	*	*
	Pembroke	48	33	42·6	37·1	40·0	- 3·9	2	19	4	0·88	-0·02	15·8	+ 5·4	30	+10
	Clifton	46	27	39·0	34·0	36·6	- 2·8	0	38	3	0·39	-0·31	*	*	*	*
	Arlington (N. Devon)	44	26	38·6	32·1	35·5	- 4·5	0	46	5	1·40	+0·68	*	*	*	*
	Cullompton Ⓜ	46	23	39·7	29·6	34·9	- 4·0	0	50	5	1·45	+0·65	2·9	- 5·9	5	-11
	Falmouth	49	31	43·8	36·2	40·2	- 3·9	5	23	4	3·61	+2·41	24·5	+11·7	45	+22
	Plymouth	49	29	43·5	33·7	38·8	- 3·9	4	32	4	1·31	+0·44	17·4	+ 5·7	32	+11
	Prawle Point	47	29	42·3	33·6	38·1	- 4·9	1	31	4	0·82	-0·03	*	*	*	*
9. IRELAND, N.	Malin Head	42	22	41·3	34·9	38·2	- 3·7	0	27	6	0·43	?	*	*	*	*
	Londonderry	41	24	38·5	30·4	34·6	- 5·3	0	52	5	0·56	-0·36	*	*	*	*
	Edenfel (Omagh)	41	16	37·1	27·1	32·3	- 5·2	0	68	2	0·33	-0·50	*	*	*	*
	Belmullet	47	26	43·6	33·0	38·5	- 4·6	4	34	5	0·87	-0·33	*	*	*	*
	Markree Castle	45	22	41·4	28·6	35·3	- 3·8	0	47	6	1·00	+0·04	19·4	+11·4	39	+24
	Armagh	43	22	39·7	28·8	34·5	- 3·9	0	53	4	0·36	-0·59	18·6	+10·6	37	+21
	Donaghadee	44	29	41·3	33·1	37·4	- 3·7	0	32	2	0·03	-0·63	*	*	*	*
	Edgeworthstown	43	21	39·0	27·4	33·4	- 4·6	0	60	2	0·34	-0·41	*	*	*	*
10. IRELAND, S.	Dublin	45	27	39·8	32·3	36·2	- 5·0	0	41	2	0·27	-0·27	11·5	- 0·3	22	- 1
	Parsonstown	43	20	37·7	28·7	33·4	- 6·1	0	60	2	0·69	-0·01	16·4	+ 6·3	32	+12
	Kilkenny	44	25	39·0	30·4	34·9	- 5·8	0	50	2	0·74	0·00	*	*	*	*
	Roche's Point	49	31	42·9	34·9	39·1	- 4·9	3	27	2	1·22	+0·04	*	*	*	*
	Valencia	46	27	44·4	33·4	39·1	- 6·2	7	33	4	1·32	-0·02	26·9	+16·9	51	+32
	Killarney	45	19	41·3	29·8	35·8	- 7·3	0	43	2	0·95	?	*	*	*	*
	Foynes	43	23	39·2	32·1	35·8	- 5·5	0	43	3	1·03	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	36	46·7	40·4	43·7	- 3·1	19	4	6	0·79	-0·09	19·3	?	35	?
	Jersey	50	33	45·0	37·6	41·5	- 2·2	8	19	7	1·60	+0·75	13·6	- 0·6	24	- 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

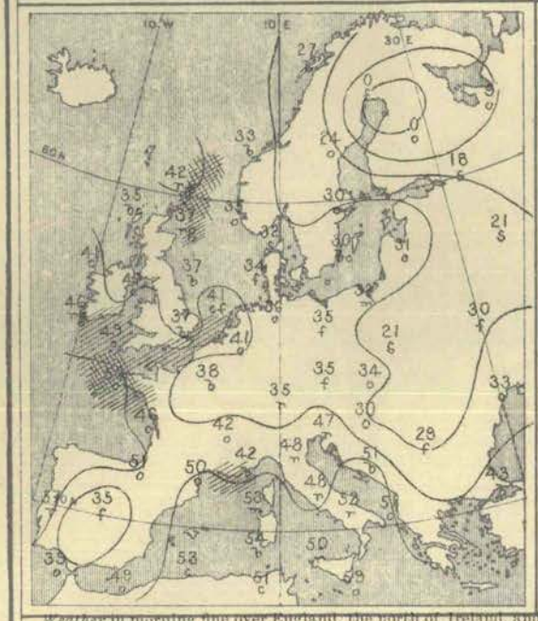
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 13th December.

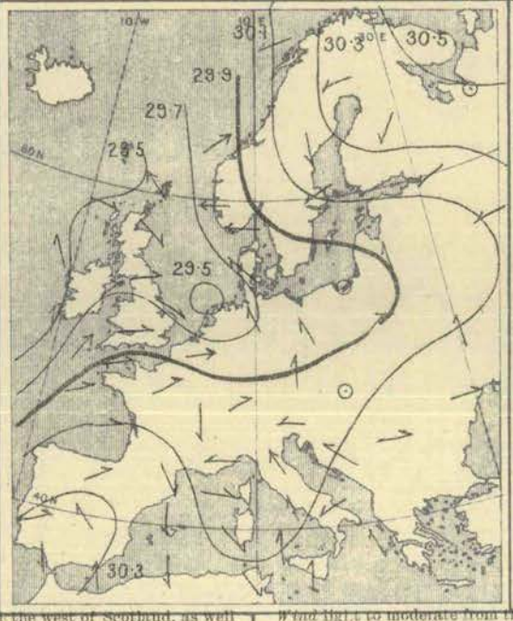
Temperature and Weather.

8 a.m.

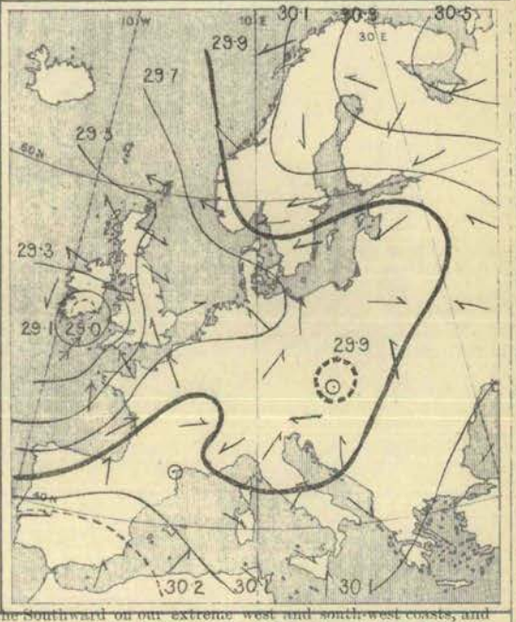


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, the north of Ireland, and the west of Scotland, as well as in the west of Norway. Cloudy or dull in nearly all other parts of Europe, with rain in the east of Scotland and the south of Ireland, as well as in south Germany, Italy, and at Lisbon; snow reported over northern and central Russia, and fog at many of the German and Austrian stations. Rain falling later over western, central, and southern Europe generally—heavily over the Netherlands and the south of our Islands.

Temperature risen in the central and southern countries, changed irregularly elsewhere. Morning readings highest, 59° at Malta, 57° at Lisbon, 55° at Sfax, and 54° at Cagliari; above 45° at the Mediterranean, Adriatic, and Spanish coasts stations generally, and also in the south-west of our Islands. Lowest, 0° zero at Haparanda and Kuopio, 9° at Archangel, and 10° at Uleaborg; below the freezing point over Russia and Scandinavia generally. Daily maxima below 45° at most of our own northern, eastern, and central stations; thermometer exceeding 50° over southern Europe, and reaching 64° at Palermo and Malta. Frost occurring over the northern parts of Great Britain at night.

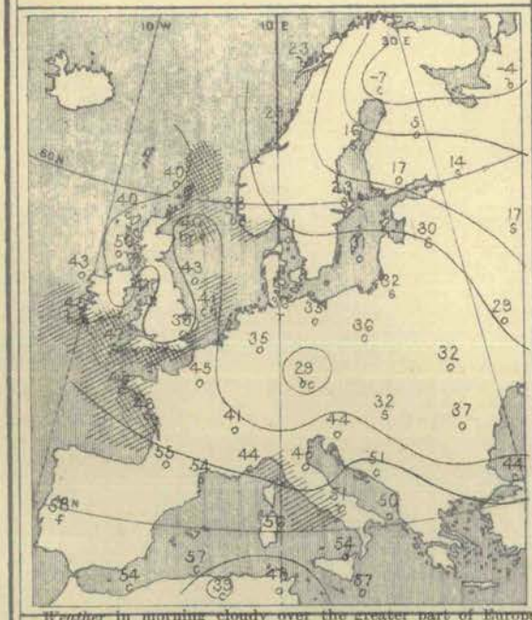
Wind light to moderate from the Southward on our extreme west and south-west coasts, and from the South-Westward or Westward in other parts of our Islands, as well as in France and Portugal. Moderate to strong from the Eastward or South-Eastward on the eastern shores of the North Sea; Northerly or North-Easterly in Sweden and Finland. Calm in Austria and the south of Russia; South-Easterly in Italy. Subsequently increasing to a gale from the Southward or South-Eastward on our southern coasts: shifting to the South-Westward in Italy; no important change occurring elsewhere.

Barometer highest 30·4 ins. and upwards in the extreme north of Russia; 30·2 ins. and upwards in an anticyclone lying over the northern parts of Russia and Scandinavia generally, and also in another system over the Spanish Peninsula and Algeria. Lowest, 29·5 ins. and less in a depression lying to the westward of Ireland, and also in a small system lying off the Dutch coasts. Depression in west subsequently advancing eastwards and proving deep; barometer falling very quickly on our south-west coasts.

Monday, 14th December.

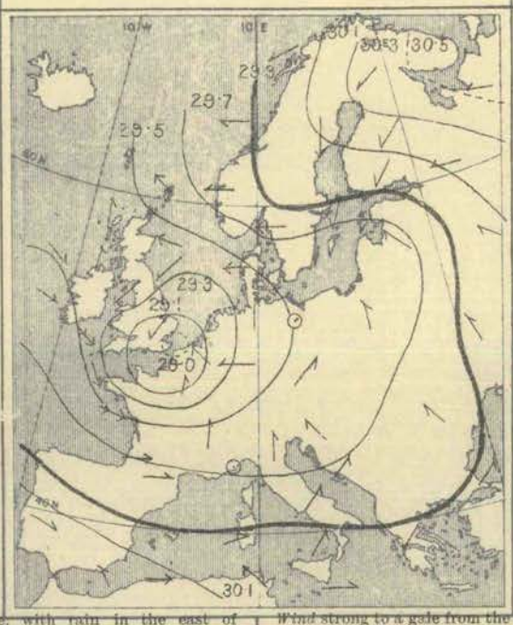
Temperature and Weather.

8 a.m.

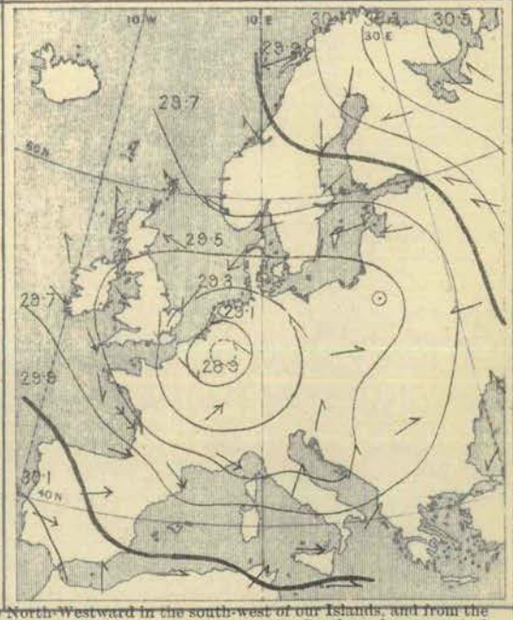


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the greater part of Europe, with rain in the east of Scotland, and also over the south-east of England and the neighbouring parts of the Continent; rain falling also in Italy. Snow reported at several of the Swedish, Russian, and north German stations. Fine and bright in the west of Norway, fair at many of our own western stations, but rainy at Parsonstown and Roche's Point. Rain or snow falling later in most parts of Europe. Lunar halos seen over England and Ireland.

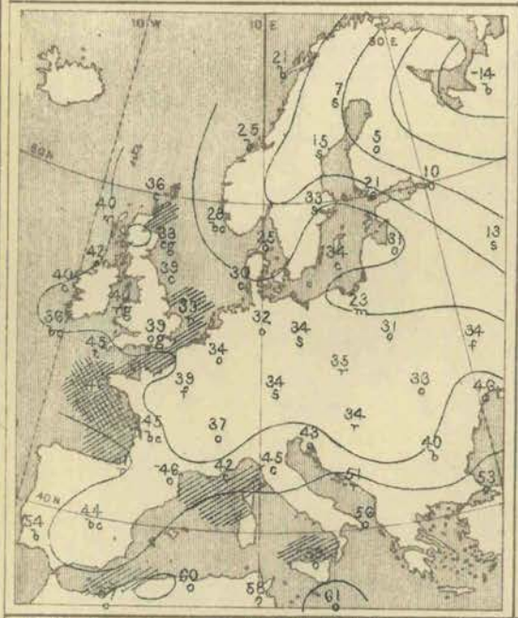
Temperature fallen in Scandinavia and northern Russia, changed irregularly elsewhere. Morning readings highest, 58° at Lisbon, 57° at Malta and Algiers, and 56° at Cagliari; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, −7° Fahr. at Haparanda, −4° at Archangel, −1° at Uleaborg, and +5° at Kuopio; considerably below the freezing point in Sweden and Russia generally. Daily maxima below 45° in all but the extreme southern and south-western parts of the United Kingdom, and below 40° at some of the Scotch stations; thermometer exceeding 50° over southern Europe generally. Frost occurring over Scotland and central Ireland at night.

Wind strong to a gale from the North-Westward in the south-west of our Islands, and from the Westward over the Bay of Biscay; light to moderate from the Southward over central France, and from the South-Eastward in the Netherlands. Fresh to strong from the North-Eastward over England and the greater part of northern Europe; South-Easterly in the north-east of Scotland. Light to moderate from the South-Westward in south Germany, and also in Italy; variable in Austria; Southerly or South-Easterly over the central and southern parts of Russia. Subsequently veering to the North-Westward over the Bay of Biscay, and increasing to a moderate gale from the same quarter in the south of France.

Barometer highest, 30·5 ins. and upwards in the extreme north of Russia; 30·1 ins. and upwards in an anticyclone over the north of Russia generally, and also in another system over Morocco and the southern parts of the Spanish Peninsula. Lowest, 29·0 ins. and less in a well-marked depression, with its centre situated between the Sussex and French coasts; gradients rather steep over France and the south of England. Depression subsequently travelling on to western Germany; barometer rising steadily in our Islands and France.

Tuesday, 15th December.

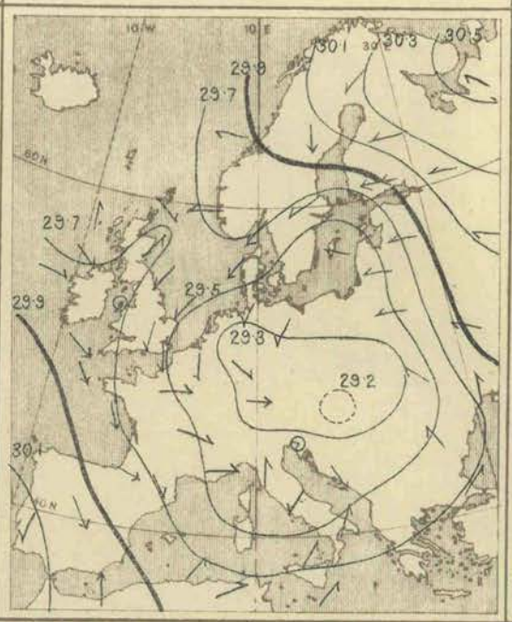
Temperature and Weather. 8 a.m.



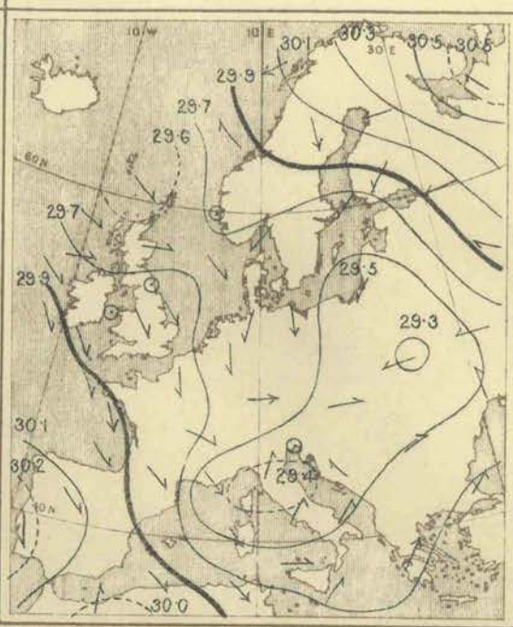
Weather in morning fair over the United Kingdom as a whole, but rainy in the east of England, and also in the Hebrides; showery on some parts of our south-west coasts. Dull and unsettled over the greater part of the Continent, with snow or cold rain at many of the northern and central stations; rain falling also in the extreme south of France and at Lesina. Fine over the Spanish Peninsula. Rain, sleet, or snow falling later in most of the western, central, and southern countries; solar halo seen at Jersey in afternoon.

Temperature fallen in most countries, but risen in Ireland and the south of Sweden, as well as in Italy and Austria. Morning readings highest, 61° at Malta, and 60° at Oran and Algiers; above 50° at the Mediterranean stations generally. Lowest, -14° at Archangel, +5° at Kuopio, and 7° at Haparanda; considerably below the freezing point over northern Europe generally, as well as in central Scotland. Daily maxima below 40° at most of our own northern and eastern stations, and exceeding 45° on our extreme south-west coasts only. Thermometer reaching 50° or more in the west and south of France, and exceeding 60° in the southern parts of Spain and Italy. Sharp frost over our Islands at night.

Barometer and Wind. 8 a.m.



6 p.m.

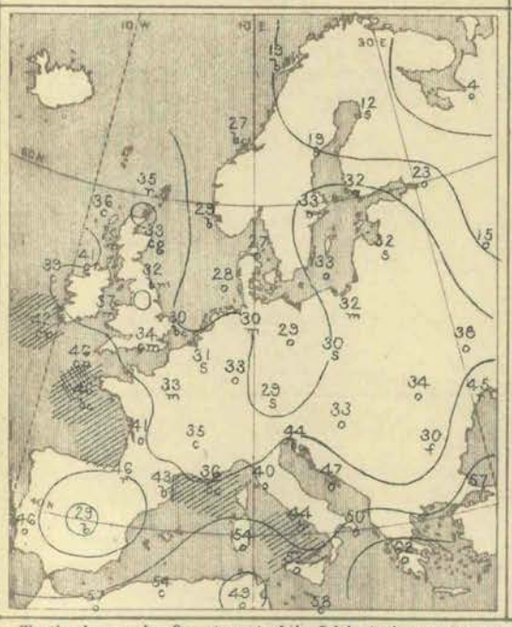


Wind Easterly over northern and central Russia, with a gale in the Gulf of Finland; strong from the North-Eastward or Northward over Sweden and Denmark; Northerly or North-Westerly over England, Ireland, France, and the Spanish Peninsula, and strong in force over the Bay of Biscay. Westerly or South-Westerly over Italy and south Germany; Southerly or South-Easterly in the south of Russia. Light from the Southward or South-Westward in Scotland, and from the South-Eastward in the west of Norway. Subsequently veering to the North-Westward in Scotland; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in the extreme north of Russia; 30·1 ins. and upwards in an anticyclone covering the northern parts of Russia and Scandinavia generally, and also in another system lying off the Portuguese coasts. Lowest, 29·3 ins. to 29·2 ins. and less in a rather complex depression lying over Germany and Austria; 29·6 ins. and less in a shallow disturbance off the north-west of Scotland. Former depression continuing to move eastwards; Scotch disturbance travelling slowly north-eastwards.

Wednesday, 16th December.

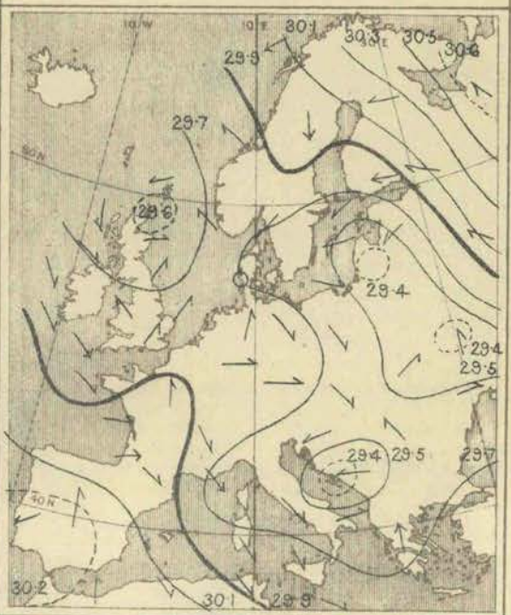
Temperature and Weather. 8 a.m.



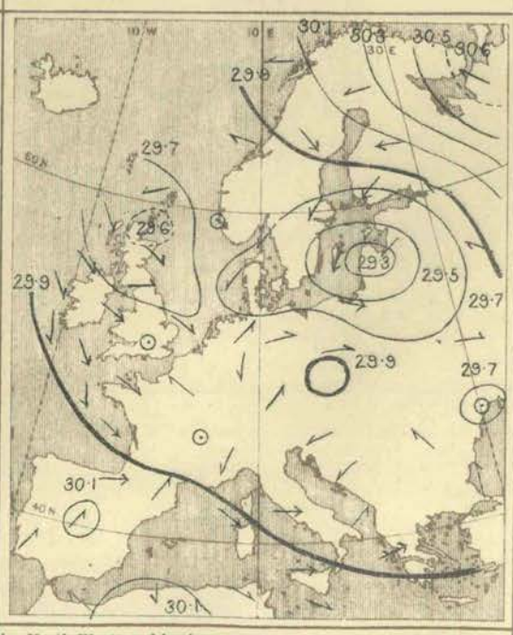
Weather in morning fine at most of the Irish stations, and also on the east coasts of England. Fine also in Spain and the extreme south of France, but dull in nearly all other parts of Europe, with passing showers on our own south-west coasts, and fog and sleet over central England. Rain falling in the extreme south of Russia and at Constantinople, and snow in many parts of Sweden, Germany, and northern Russia. Snow showers falling later over the northern parts of our Islands generally, and rain at some of our southern stations, as well as in France and Italy.

Temperature fallen in the western, central, and southern countries. Morning readings highest, 62° at Athens, 58° at Malta, and 57° at Nemours; above 50° at several of the Mediterranean stations. Lowest, 4° at Archangel, 12° at Uleaborg, and 15° at Moscow; below the freezing point over the northern and central parts of our Islands and the Continent generally. Daily maxima below 35° at some of the English stations, and as low as 32° at Oxford. Thermometer exceeding 45° on our extreme south-western coasts, and exceeding 50° over southern Europe, the highest reading of all being 59° at Palermo and Malta.

Barometer and Wind. 8 a.m.



6 p.m.

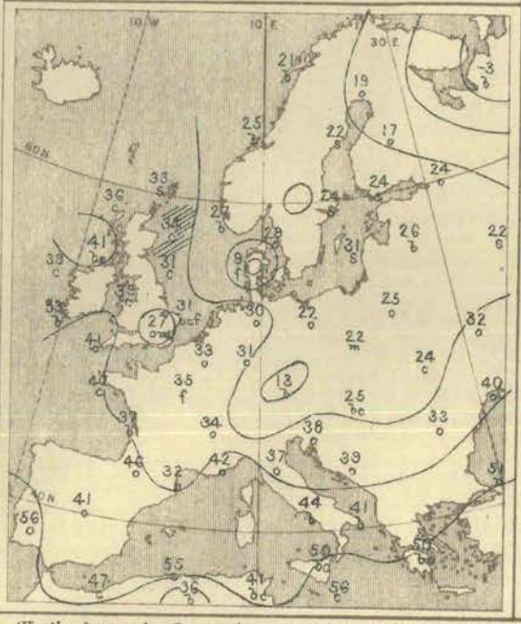


Wind light to moderate from the North-Westward in the west of our Islands, and fresh from the Westward over the Bay of Biscay; light from the South-Westward in the eastern parts of Great Britain, and from the South-Eastward in the west of Norway. Easterly or South-Easterly over northern and central Russia, North-Easterly in Sweden, North-Westerly in Germany and Austria, as well as at some of the Italian stations; Easterly on the Portuguese coasts. Subsequently veering to the North-Westward in the eastern parts of Great Britain. No important change occurring elsewhere.

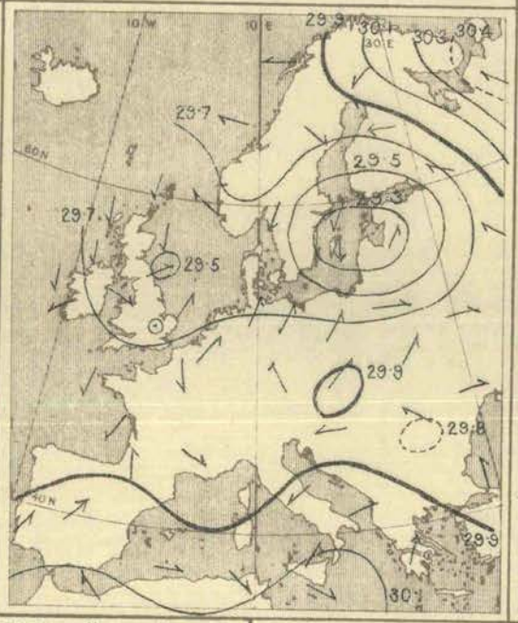
Barometer highest, 30·6 ins. and upwards in the extreme north of Russia; 30·2 ins. and upwards in an anticyclone lying over northern Russia generally, and also in another system over the Spanish Peninsula. Lowest, 29·4 ins. and less in two depressions—one lying over the Adriatic, and the other near Kiev; 29·6 ins. and less in a shallow system off the north-east of Scotland. Scotch depression subsequently moving slowly southwards, but rather deep disturbance forming over Baltic provinces.

Thursday, 17th December.

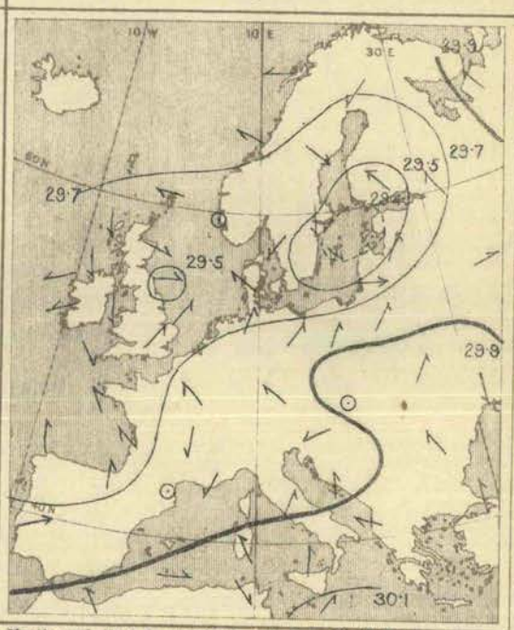
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on the west coasts of our Islands and France generally, as well as over the west of Norway and the greater part of Italy. Cloudy or dull elsewhere, with fog at many of the English stations; snow falling at Sumburgh Head, Leith, and Liverpool, and also over Sweden, the Baltic, and the Gulf of Finland. Thunderstorm occurring in early morning at Liverpool. Snow, hail, or sleet showers falling later in many parts of Europe, and rain in Spain and northern Italy.

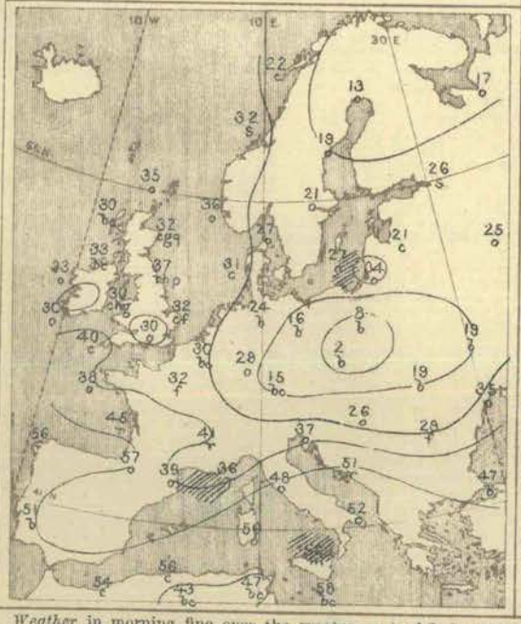
Temperature fallen over the south of our Islands and the greater part of the Continent, but risen in Scotland. Morning readings highest, 56° at Lisbon and Malta, 55° at Algiers, and 52° at Patras. Lowest, -3° Fahr. at Archangel, +9° at Fanö, 13° at Munich, and 17° at Prague and Kuopio; below the freezing point over northern and central Europe generally, as well as in many parts of England and Ireland. Daily maxima below 40° at all but our western and southern coast stations, and not exceeding 33° in London. Rising to 50° and upwards over southern Europe generally, and to 60° and upwards in the south of Italy.

Wind moderate from between North and East in Scotland, and from North-West on our western and southern coasts, but South-Westerly over the eastern and central parts of England, as well as in the Netherlands; South-Easterly in the west of Norway. Strong from East or North-East over northern Russia, from North or North-West in Sweden, and from West in north Germany, with a gale at Helsingfors and Wisby. Variable in the south of Russia; calm in Austria; South-Westerly over the Spanish Peninsula and the southern parts of Italy. No important change occurring over western Europe during day, but wind moderating a little over Sweden and northern Russia.

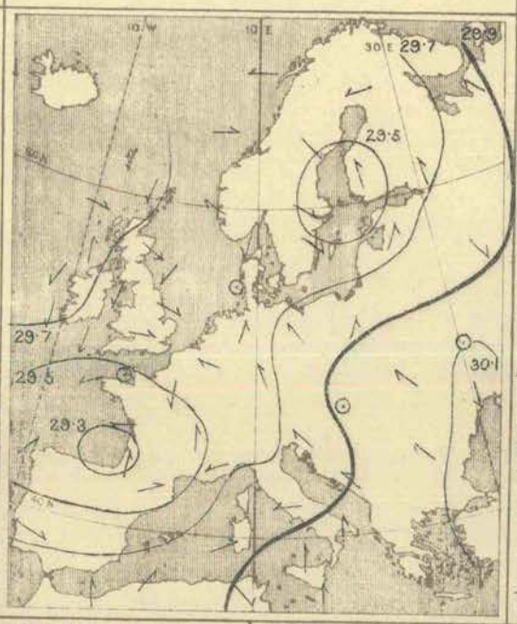
Barometer highest, 30·4 ins. and upwards in an anticyclone over northern Russia; 30·1 ins. and upwards in other systems lying respectively over Morocco and over the central parts of the Mediterranean. Lowest, 29·3 ins. and less in a well marked depression over the northern parts of the Baltic; 29·5 ins. and less in a small and very shallow system off the Northumberland coast. Baltic depression partially filling up later; small shallow disturbances forming over various parts of England and the Channel.

Friday, 18th December.

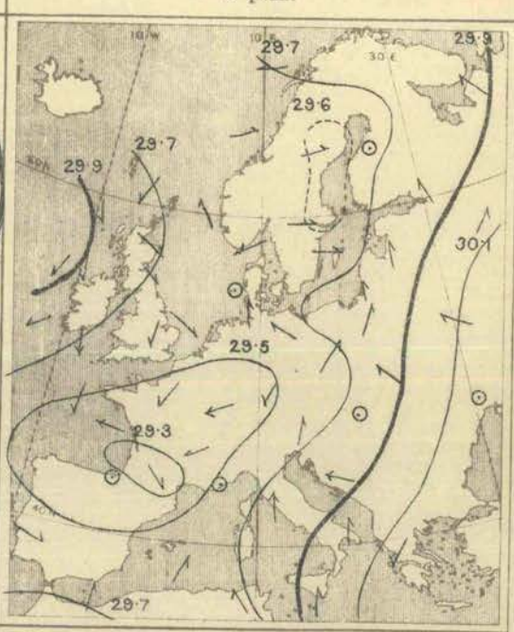
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of Ireland and Scotland, as well as at many of the German stations. Cloudy or dull in nearly all other parts of Europe, with fog over the south-eastern parts of England, and snow or hail showers over our northern and midland counties; snow reported also in several parts of northern Europe, and rain in the south of France, and at Lesina. Snow showers falling during day in most parts of Great Britain, and heavy rain in the south of France—as much as 3·3 ins. at Nice.

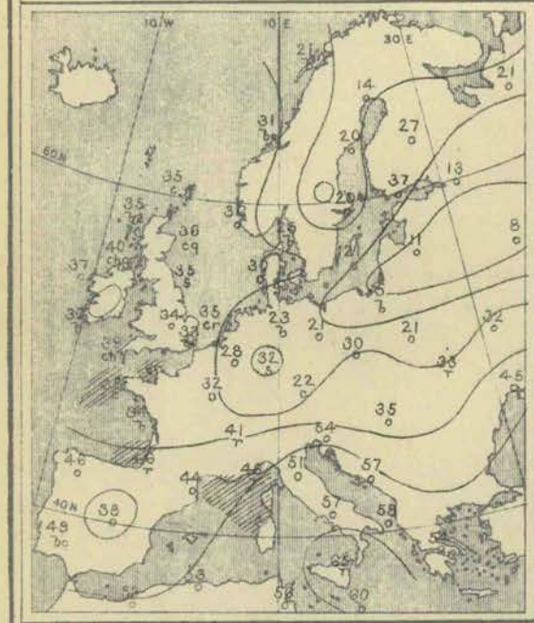
Temperature changed rather irregularly, but fallen in most of the western and central countries. Morning readings highest, 58° at Malta, 57° at Biarritz, and 56° at Coruna, Cagliari, Palermo and Algiers. Lowest, (1) 2° at Cracow, 8° at Warsaw, and 15° at Prague and Munich; (2) 13° at Haparanda, and 15° at Uleaborg; (3) 22° at Parsonstown. Daily maxima below 35° over central Ireland and the south-eastern parts of England; thermometer exceeding 55° over southern Europe generally, and reaching 70° at Palermo. Sharp frost occurring over our Islands at night.

Wind light to fresh from the North-Westward in Scotland, and from the Northward or North-Eastward on our western and southern coasts, but variable or South-Westerly over eastern and central England. Westerly over the Spanish Peninsula; Southerly over central France; Easterly in the Bay of Biscay. Variable in Norway and Denmark, North-Westerly in Sweden, Westerly over the Baltic, Southerly in Germany, variable over Italy and the south of Russia. Northerly breezes setting in later over England; wind increasing from the Southward in Italy, with a gale at Palermo.

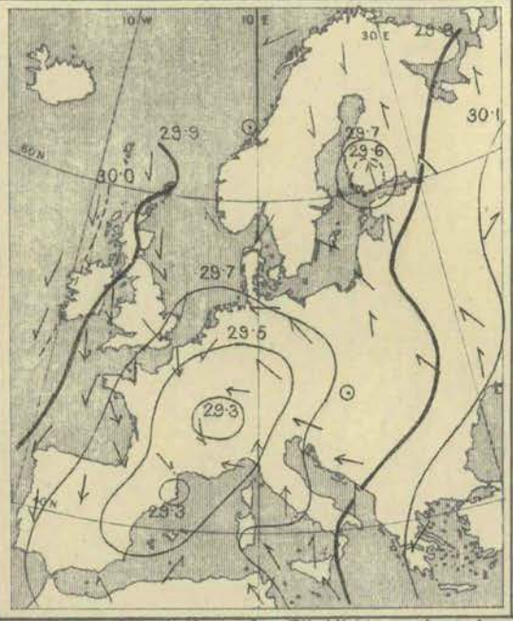
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over south-eastern Europe; 29·7 ins. and upwards over the western parts of Ireland and Scotland. Lowest, 29·3 ins. and less in a depression over the southern part of the Bay of Biscay; 29·5 ins. and less in a shallow system in the neighbourhood of the Gulf of Finland. Depression over Bay of Biscay subsequently moving eastwards over France; barometer rising in all parts of our Islands.

Saturday, 19th December.

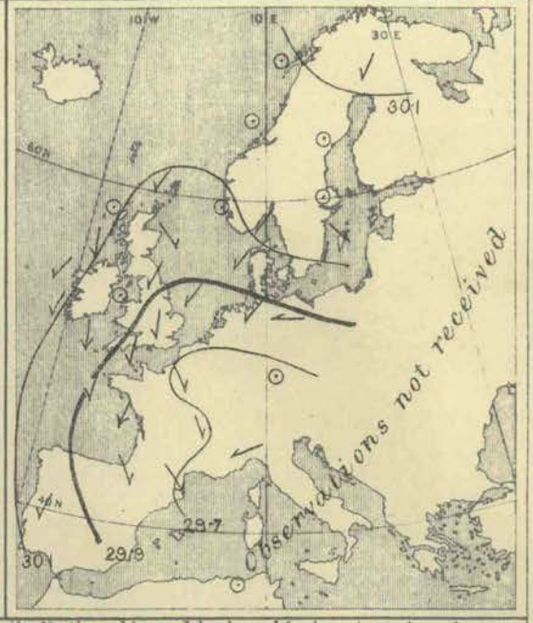
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at most of our own western and northern stations, and also in Norway and Denmark. Cloudy or dull in nearly all other parts of Europe, with snow in some parts of our eastern and south-eastern counties, as well as at Wiesbaden and Limoges; rain falling at Nice and Biarritz, and also at Lemberg and Palermo. Snow or sleet showers occurring later in most parts of Great Britain.

Temperature fallen quickly over western and central Russia, risen briskly over Italy, Austria, and eastern Germany, changed irregularly elsewhere. Morning readings highest, 65° at Palermo, 62° at Sfax, 60° at Malta, and 58° at Brindisi; above 50° at several of the Mediterranean and Adriatic stations. Lowest, 5° at Neufahrwasser, 8° at Moscow, 9° at Karlstad, and 10° at Riga; considerably below the freezing point over northern and central Europe generally, and also over central Ireland. Daily maxima below 40° in most parts of Great Britain, as well as in central Ireland; thermometer rising very little above 45° even in the south of France. Frost occurring over our Islands at night; sheltered thermometer at Parsonstown falling to 16°.

Wind light to moderate from the Northward in our Islands, and fresh or strong from the same quarter over the north and west of France, and also over the Spanish Peninsula. Light from the Eastward (South-East to North-East) over the Netherlands, Germany, Denmark, and the south of Norway. Northerly or North-Westerly in Sweden; light from the Southward in Russia, and strong from the same quarter over Italy; variable in the south of France. Subsequently veering to the North-Eastward in many parts of our Islands; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in a large anticyclone over Russia, the Black Sea, and Asia Minor; 30·0 ins. and upwards in another system lying to the westward of our Islands. Lowest, 29·3 ins. and less in a depression over the east of France and the neighbouring parts of Switzerland. Anticyclone off our western coasts subsequently spreading northwards and eastwards, and barometer rising in all parts of western and northern Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier half of the week two high pressure areas were observed—one over northern Russia, the other to the southward and south-westward of the Spanish Peninsula. In the more northern parts of the Continent the wind was therefore Easterly, while in the extreme south it was mainly from the Westward or South-Westward. Over the western and central countries, however, it varied a good deal in direction, owing to the presence of numerous cyclonic systems, which either advanced from the westward or which were developed in various regions. Of these the most important were:—(1) A small but rather deep depression, which advanced eastwards along the Channel and south of England on the night of the 13th, and which afterwards moved on to Germany and filled up. The progress of this disturbance was marked by heavy rain, and by gales from the Southward, veering to the North-Westward, on all our more southern coasts. (2) A less important disturbance, which appears to have been developed over Austria on the 15th, and which afterwards moved northward to the Baltic, its presence in the latter neighbourhood occasioning very strong winds or gales from some northern point over Sweden and northern Russia. (3) A well marked, but somewhat shallow, depression, which moved eastwards across the Bay of Biscay and the southern parts of France on the 18th and 19th, when very heavy rain occurred over the Riviera.

In our Islands the conditions during the latter part of the week were influenced by several small depressions, too shallow to occasion much wind, but sufficiently marked to produce dull, misty weather, with snow in many parts of Great Britain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	4·5	− 1·0	10	− 1	SOUTHPORT	13·3	?	27	?
OSWALDKIRK (Yorkshire)	16·0	+ 8·0	32	+ 16	MANCHESTER (Oldham Road)	1·0*	?	2*	
WORKSOP	13·1	+ 5·6	25	+ 11	COLWYN BAY	11·1	?	22	?
THURCASTON (Leicestershire)	3·7	− 3·1	7	− 6	NEWQUAY	19·0	+ 7·8	35	+14
MARGATE	18·0	+ 7·2	33	+ 13	TORQUAY	8·7*	− 3·1	16*	− 6
WESTBOURNE (Sussex)	4·6*	− 6·6	9*	− 12	ARLEY COTTAGE (County Cavan)	20·2	+11·8	40	+24
BRIGHTON	7·0	− 4·4	13	− 8	GUERNSEY	6·8*	− 3·5	12*	− 6
EASTBOURNE	7·9	− 4·6	15	− 8					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons Ltd., 74, Brick Lane, E.C., and Fetter Lane, E.C.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIII. No. 52.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 26TH, 1896. [*Price 6d.* *Annual Subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 308.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	13	42·7	32·5	37·8	0 (average)	2	− 5	35	+ 2	2136	+160	595	−245
	1. SCOTLAND, EAST	58	9	41·9	29·5	35·9	1 below	0	− 6	43	+ 2	2436	+ 74	757	−162
	2. ENGLAND, N.E.	55	23	41·3	32·4	37·1	1 below	0	− 7	34	− 2	2699	+122	580	−160
	3. ENGLAND, EAST	54	24	40·6	30·1	35·6	2 below	0	− 8	45	+ 4	3038	+ 61	718	−121
	4. MIDLAND COUNTIES	55	20	41·3	29·7	35·8	2 below	0	− 9	43	+ 2	2992	+ 41	730	−131
	5. ENGLAND, SOUTH	51	27	42·2	33·0	37·8	2 below	1	−12	33	+ 1	3430	+150	455	−166
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	19	42·7	32·8	39·9	2 below	2	− 9	48	+21	2673	+148	505	−127
	7. ENGLAND, N.W.	55	27	41·6	32·3	37·3	2 below	0	−10	33	+ 5	2973	+207	425	−178
	8. ENGLAND, S.W.	55	23	44·8	34·9	40·1	1 below	8	− 9	29	+ 8	3331	+212	373	− 83
	9. IRELAND, NORTH	55	14	43·2	31·1	37·2	3 below	3	− 9	39	+14	2810	+152	425	−121
	10. IRELAND, SOUTH	58	16	47·5	32·4	40·2	2 below	15	− 5	39	+19	3282	+216	326	− 91
	—CHANNEL ISLANDS	53	30	47·5	38·6	43·2	2 below	23	− 5	10	+ 3	3967	+315	67	−104

Rainfall.

	DISTRICTS. (See p. 308.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	18	5 more	247	+ 2	54·8	+ 2·8
	1. SCOTLAND, EAST	6	7	1 more	209	+10	29·1	− 3·7
	2. ENGLAND, N.E.	4	6	1 more	192	+ 4	24·8	− 1·7
	3 ENGLAND, EAST	5	7	2 more	185	+ 1	24·9	− 1·3
	4. MIDLAND COUNTIES	4	6	0 (average)	179	− 1	24·4	− 3·9
	5. ENGLAND, SOUTH	4	5	2 less	168	− 8	25·6	− 3·7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	15	3 more	211	+ 2	43·5	− 6·3
	7. ENGLAND, N.W.	4	10	2 more	195	− 1	34·0	− 1·4
	8. ENGLAND, S.W.	5	10	3 more	180	−20	33·1	− 6·9
	9. IRELAND, NORTH	4	7	2 less	221	− 7	38·1	+ 0·3
	10. IRELAND, SOUTH	5	9	0 (average)	193	−13	35·3	− 3·8
	—CHANNEL ISLANDS	5	6	3 less	202	−11	29·7	− 4·2

Bright Sunshine.

	DISTRICTS. (See p. 308.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	+ 1	12	+ 4	988	− 64	22	− 2
	1. SCOTLAND, EAST	3	− 4	7	− 8	1240	− 35	28	− 1
	2. ENGLAND, N.E.	8	0	16	− 1	1239	− 37	28	− 1
	3 ENGLAND, EAST	8	− 2	15	− 4	1488	− 47	34	− 1
	4. MIDLAND COUNTIES	6	− 2	12	− 3	1335	− 22	31	0
	5. ENGLAND, SOUTH	9	− 2	16	− 4	1593	− 7	36	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	− 4	6	− 8	1338	− 4	30	0
	7. ENGLAND, N.W.	3	− 5	6	− 9	1247	+ 5	30	0
	8. ENGLAND, S.W.	9	− 2	17	− 4	1743	+ 94	39	+ 2
	9. IRELAND, NORTH	8	0	15	0	1238	− 29	28	− 1
	10. IRELAND, SOUTH	6	− 5	12	− 9	1439	− 4	33	0
	—CHANNEL ISLANDS	9	− 2	17	− 3	1915	+ 15	43	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued rather cold and dry during the earlier part of the week, but towards its close the conditions became mild and very changeable, and heavy rains alternated with intervals of bright and even cloudless weather.

Temperature was again below the mean very generally, but just equalled it in Scotland N. The deficit ranged from 1° over the south-western and north-eastern parts of Great Britain to 3° in Ireland N. The highest of the maxima were recorded on the 26th, and varied from 58° in Scotland E. and Ireland S. to 51° in England S. The lowest of the minima, which were registered during the earlier or middle part of the period, ranged from 9° in Scotland E. (at Braemar on the 23rd), 13° in Scotland N., 14° in Ireland N., and 16° in Ireland S., to 27° in England S. and N.W., and to 30° in the Channel Islands.

Rainfall was rather in excess of the mean in most districts, but only just equalled it in the Midland counties of England and Ireland S., and was less than the normal in England S., the Channel Islands and Ireland N.

Bright Sunshine was deficient in nearly all districts, the percentage of the possible amount of duration ranging from 17 in England S.W. and the Channel Islands, to 7 in Scotland E., and 6 in Scotland W. and England N.W.

Barometer and Wind.—During the earlier days of the week the barometer continued highest in the north, the winds consequently being Easterly over our Islands. Later on, however, depressions advanced from the Atlantic, and towards the end of the period pressure became highest in the south. The depressions appeared first in the south-west, causing strong winds or gales from the South-Eastward over Ireland and the east of Scotland, and afterwards in the north, producing fresh or strong South-Westerly to Westerly or North-Westerly winds over all parts of the Kingdom.

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II.—DATA from which the SUMMARY on page 307 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	31	43·1	35·4	39·4	+ 0·3	3	25	7	0·94	-0·01	*	*	*	*
	Stornoway	51	28	44·6	33·4	39·2	+ 0·4	7	33	5	1 75	+0·48	7·8	+ 1·9	18	+ 5
	Wick	55	26	44·3	31·7	38·3	+ 1·2	6	40	6	0 69	+0·01	*	*	*	*
	Lairg Ⓢ	56	13	40·1	28·9	34·7	- 1·6	0	51	5	0·67	- 0·23	*	*	*	*
	Glencarron Ⓢ	52	24	41·7	31·3	36·7	+ 0·1	0	37	6	2·93	+0·71	*	*	*	*
	Fort Augustus Ⓢ															
	Fort William Ⓢ	52	23	42·4	34·1	38·4	- 0·5	1	29	6	4·03	+1·91	2·3	- 1·0	5	- 2
1. SCOTLAND, E.	Nairn	56	18	43·1	28·0	35·9	- 1·3	3	52	6	0·56	+0·14	*	*	*	*
	Aberdeen	55	28	43·1	31·3	37·4	+ 0·2	3	40	6	0·72	+0·07	6·3	- 3·4	14	- 7
	Braemar Ⓢ	51	9	37·3	26·6	32·2	- 2·0	0	69	4	0·84	+0·16	3·8†	- 1·2†	8†	- 2†
	Ochtertyre Ⓢ	53	23	42·0	29·4	36·0	- 0·4	0	42	6	1·06	+0·08	*	*	*	*
	Leith	58	27	45·1	32·6	39·0	+ 0·1	9	36	5	0·41	+0·01	*	*	*	*
	Marchmont Ⓢ	50	21	40·6	29·1	35·1	- 1·1	0	48	6	0·83	+0·18	2·3	- 5·5	5	-11
2. ENGLAND, N.E.	Alnwick Castle	49	26	41·1	32·1	36·8	- 1·0	0	36	5	1·16	+0·51	*	*	*	*
	Durham	53	23	39·9	31·3	35·8	- 0·9	0	43	4	0·76	+0·16	11·1	+ 1·0	23	+ 3
	Shields	54	28	43·1	33·1	38·3	- 0·2	3	33	3	0·62	+0·12	*	*	*	*
	Scarborough Ⓜ	55	26	41·2	33·4	37·5	- 0·6	0	32	4	0·47	-0·13	*	*	*	*
	York	55	25	40·7	30·6	35·9	- 1·3	0	43	4	0·28	-0·22	5·3	- 1·0	11	- 1
	Spurn Head	51	30	41·9	33·7	38·0	- 0·8	0	28	5	0·57	+0·15	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	27	40·7	31·4	36·2	- 0·5	0	41	6	0·91	+0·39	6·6	- 3·2	13	- 5
	Yarmouth	48	24	40·3	30·0	35·4	- 2·5	0	46	4	0·48	-0·06	*	*	*	*
	Geldeston	52	25	41·0	31·1	36·3	- 1·7	0	40	4	0·74	+0·28	10·4	- 0·7	20	- 1
	Cambridge	54	26	41·4	28·4	35·2	- 2·0	0	48	4	0·56	+0·16	7·6	- 2·1	14	- 4
	Rothamsted	47	25	39·5	29·5	34·7	- 2·7	0	51	5	0·70	+0·15	6·3	- 3·6	12	- 6
4. MIDLAND COUNTIES	Harrogate Ⓜ	54	27	40·4	31·8	36·3	- 1·1	0	40	5	0·58	?	3·8	?	8	?
	Bawtry (Hesley Hall)	55	24	41·6	30·6	36·3	- 0·7	0	40	4	0·33	-0·15	*	*	*	*
	Loughborough	53	22	42·1	29·7	36·2	- 1·0	0	45	5	0·72	+0·22	*	*	*	*
	Stamford (Duddington)	46	23	39·4	29·6	34·7	- 1·9	0	51	5	0·65	+0·17	*	*	*	*
	Cheadle Ⓜ	51	24	40·0	29·5	35·0	- 1·6	0	49	5	0·84	+0·14	*	*	*	*
	Shirley (near Solihull)	51	23	41·6	28·4	35·3	- 1·4	0	47	3	0·58	?	*	*	*	*
	Churchstoke Ⓜ	53	20	40·6	28·7	34·9	- 2·9	0	50	3	0·68	-0·02	7·6	- 1·3	15	- 2
	Hereford Ⓜ	55	22	42·1	30·0	36·3	- 1·9	0	40	4	0·29	-0·23	*	*	*	*
	Cirencester	52	24	42·3	28·4	35·6	- 1·6	1	50	3	0·66	+0·04	5·7	- 4·3	11	- 7
	Oxford	53	25	42·6	30·7	36·9	- 1·3	2	42	3	0·62	+0·18	9·0	- 0·9	17	- 1
5. ENGLAND, S.	London	51	28	41·6	31·4	36·7	- 2·2	0	37	4	0·50	+0·01	4·4†	- 0·5†	8†	- 1†
	North Foreland	48	31	42·1	33·4	37·9	- 1·4	0	31	5	0·95	?	*	*	*	*
	Dungeness	48	30	41·9	33·3	37·8	- 2·1	0	29	4	0·26	-0·34	*	*	*	*
	Hastings (St. Leonards)	48	30	41·6	34·8	38·3	- 2·0	0	26	3	0·29	-0·35	8·3	- 4·9	15	- 9
	Southampton	51	27	42·6	32·2	37·6	- 2·4	2	36	3	0·47	-0·25	9·7	- 1·6	18	- 3
	Hurst Castle	48	29	43·6	32·7	38·4	- 2·5	4	35	3	0·36	-0·29	*	*	*	*
	Stowell Ⓜ												*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	55	26	43·6	34·2	39·1	- 1·0	4	30	5	2·18	+0·06	*	*	*	*
	Glasgow	54	25	41·6	33·1	37·5	- 0·9	0	32	5	1·02	+0·12	0·0	- 4·2	0	- 9
	Ardrossan	52	26	43·3	33·4	38·6	- 1·7	4	33	5	0·96	+0·10	*	*	*	*
	Glenlee Ⓢ	54	19	41·6	28·8	35·5	- 1·9	0	46	4	2·33	+0·88	*	*	*	*
	Douglas (Isle of Man)	51	25	43·4	34·3	39·0	- 2·0	4	29	4	1·23	+0 17	5·8	- 4·0	12	- 6
7. ENGLAND, N.W	Stonyhurst	53	27	39·7	32·3	36 2	- 1·5	0	41	5	1·58	+0·54	2·7	- 3·6	5	- 7
	Blackpool Ⓜ	52	25	41·7	29·7	35·9	- 2·9	0	43	2	0·44	-0·26	0·0	- 6·0	0	-12
	Manchester (Prestwich)	54	27	40·4	31·1	35·9	- 1·5	0	43	5	1·34	+0·51	0·4	?	1	?
	Liverpool Obsy. (Bidston)	55	28	42·0	31·0	36·7	- 3·1	0	37	4	0·64	+0·07	*	*	*	*
	Llandudno Ⓜ	55	30	43·7	35·0	39·5	- 2·1	5	27	4	0·22	-0·48	*	*	*	*
	Holyhead	50	30	44·1	34·9	39·7	- 2·9	6	28	5	1·51	+0·66	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	23	43·3	29·0	36·6	- 1·6	4	49	6	1·12	-0·11	*	*	*	*
	Pembroke	50	34	45·4	37·6	41·7	- 1·5	10	19	4	0·54	-0·36	7·6	- 3·3	14	- 6
	Clifton	52	29	43·1	32·6	38·1	- 1·2	3	35	4	0·65	-0·05	*	*	*	*
	Arlington (N. Devon)	51	28	43·3	32·7	38·2	- 1·7	4	35	5	2·02	+0·75	*	*	*	*
	Cullompton Ⓜ	55	27	44·9	32·1	38·8	+ 0·1	8	39	5	0·77	-0·03	8 9	- 0·1	16	0
	Falmouth	52	32	47·0	40·4	43·6	0·0	19	4	6	1·57	+0·37	12·9	- 0·1	23	0
	Plymouth	52	29	45·9	38·0	42·1	0·0	18	11	5	1·88	+1·03	7·6	- 4·3	14	- 7
	Prawle Point	50	30	45·3	36·6	41·1	- 1·5	9	22	5	1·42	+0·60	*	*	*	*
9. IRELAND, N.	Malin Head	53	31	44·0	35·6	40·0	- 1·6	6	25	5	0·37	?	*	*	*	*
	Londonderry	53	23	41·3	30·9	36·3	- 3·2	0	40	4	0·60	-0·32	*	*	*	*
	Edenfel (Omagh)	50	14	41·3	24·7	32·3	- 5·0	0	68	3	0 96	+0·14	*	*	*	*
	Belmullet	52	28	45·4	32·9	39·4	- 3·7	10	36	4	0·88	-0·32	*	*	*	*
	Markree Castle	55	18	42·6	29·4	36·3	- 2·7	2	47	4	0·67	-0·28	9·0	+ 1·0	18	+ 3
	Armagh	54	21	42·0	31·0	36·7	- 1·5	0	37	5	0·53	-0·13	7·7	- 0·8	15	- 1
	Donaghadee	55	29	45·6	33·3	39·7	- 1·0	10	35	4	0·60	-0·07	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	58	27	45·3	35·4	40·6	- 0·5	9	27	4	0·28	-0·27	9·8	- 2·2	19	- 4
	Parsonstown	55	16	46·0	26·0	36·4	- 3·0	11	62	5	0·53	-0·14	2·9	- 7·3	6	-14
	Kilkenny	55	21	46·1	29·0	37·9	- 2·4	11	51	6	1·19	+0·44	*	*	*	*
	Roche's Point	53	28	48·3	35·9	42·4	- 1·3	28	17	7	1·55	+0·37	*	*	*	*
	Valencia	55	27	50·0	35·7	43·1	- 1·9	34	18	6	1·29	-0·11	6·5	- 3·7	12	- 7
	Killarney	54	21	49·0	32·6	41·1	- 1·9	20	40	5	0·71	?	*	*	*	*
	Foynes	56	23	47·6	31·9	40·1	- 1·1	16	42	5	0·72	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	53	33	50·1	42·0	46·2	- 0·3	29	0	7	0·81	-0 04	7·3	?	13	?
	Jersey	50	30	44·9	35·1	40 2	- 2·9	8	28	3	0·37	-0·45	15·0	+ 0·2	27	+ 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

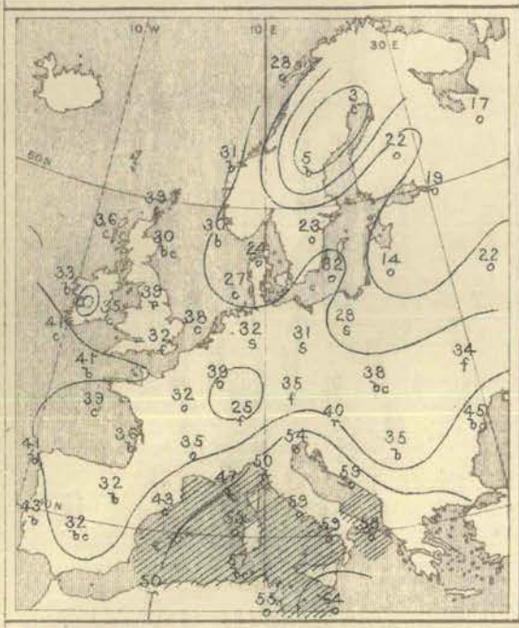
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 20th December.

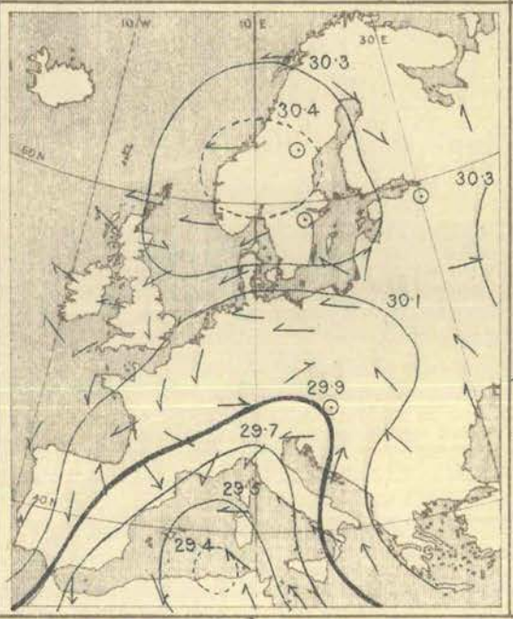
Temperature and Weather.

8 a.m.

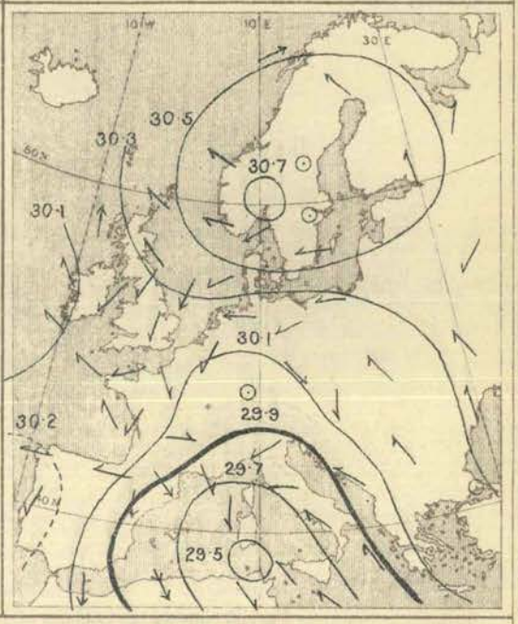


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scandinavia, as well as over the western parts of the British Islands, some parts of France, the Spanish Peninsula generally, and many parts of south-eastern Europe; dull and unsettled over the Mediterranean, with rain in many places, dull also over central Europe and the eastern parts of Great Britain, with snow or sleet in many places. Heavy falls of rain later over many parts of Italy and the south of France, snow and sleet at times over Germany and the east of England. General condition over the British Islands very changeable.

Temperature in morning highest, 64° at Mal'a, and 59° to 50° on the eastern and southern shores of the Mediterranean; 43° at Lisbon, 41° at Scilly and Valencia (Ireland). Lowest, 5° Fahr. at Haparanda and Hernösand, 17° at Archangel, 19° at St. Petersburg; 25° at Munich, 23° to 32° over central France, rather above the freezing point over the greater part of England, but as low as 17° at Parsonstown. Exceeding 40° at some of our western stations later, and exceeding 60° over the southern parts of Italy.

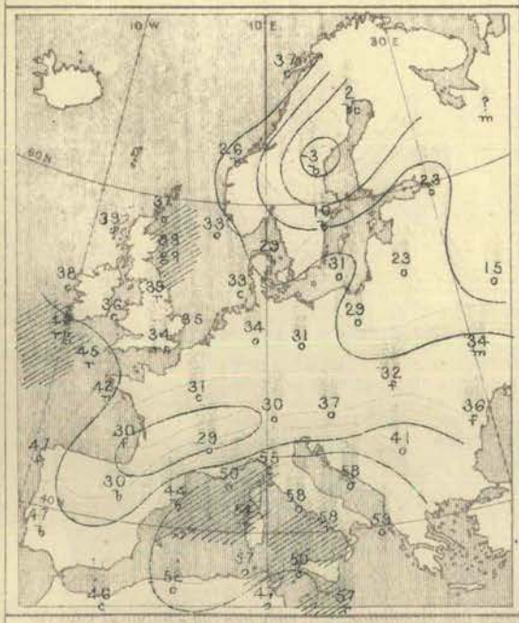
Wind slight and anticyclonic over Scandinavia, Finland, and the north-east of Scotland; North-Easterly over north Germany, the North Sea, the southern parts of our Islands, and the north of France. A well marked cyclonic circulation prevailing over the Mediterranean—the strongest current being that from South-East over Italy; Southerly breezes prevalent over the south of Russia. Freshening breezes from South-East setting in over Ireland later.

Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone covering the northern parts of continental Europe, Scotland, and the north of England. Lowest, about 29·4 ins. in a depression over the Mediterranean, and below 30·1 ins. off our extreme south-western coasts. Gradients steep over southern Europe. A new depression approaching our extreme western coasts later.

Monday, 21st December.

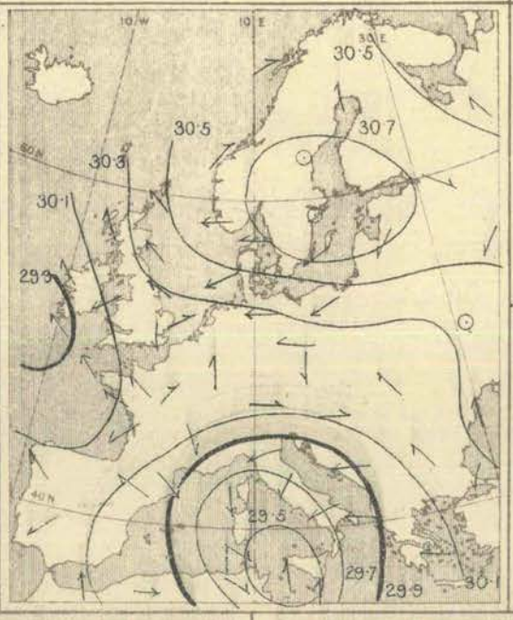
Temperature and Weather.

8 a.m.

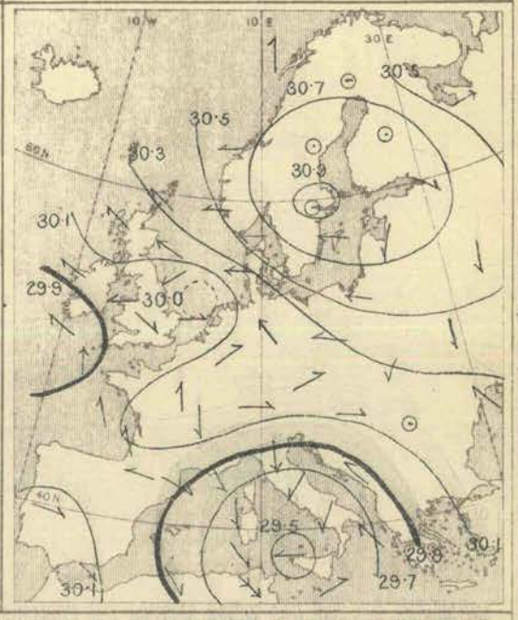


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and quiet over Scandinavia and northern Europe, and at several of the stations clear and bright; dull and changeable over central Europe, with fog in many places, very unsettled over the British Islands—very rainy on our south-west coasts and angry looking in the north—very dull and rainy over the Mediterranean. Much rain later in the south-west of our Islands and over Brittany; considerable wet snow and rain at Aberdeen, and cold showers over our southern and north-eastern districts generally.

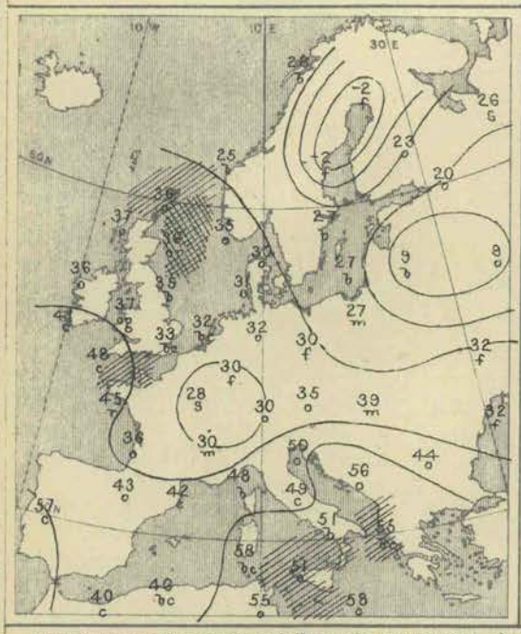
Temperature risen over Ireland and Scotland. Morning readings highest, 58° at Naples, 57° at Cagliari, 50° at Nice, 47° at Lisbon and Corunna, 46° at Valencia, 45° at Scilly, 40° at Donaghadee. Lowest, −8° Fahr. at Hernosand, +2° at Haparanda, and below 20° over many of the northern parts of Russia. Below the freezing point in many parts of Germany and France, and very little above it over England. Not touching 40° over England all day, but rising considerably on our southern coasts later.

Wind light to moderate and anticyclonic over northern Europe, very light and variable over central Europe; Northerly and light over the eastern half of England; South-Easterly, however, over Scotland and Ireland, and blowing strongly. A large and well marked cyclonic circulation prevalent over the Mediterranean. The South-Easterly wind blowing still harder on our south-western and northern coasts later.

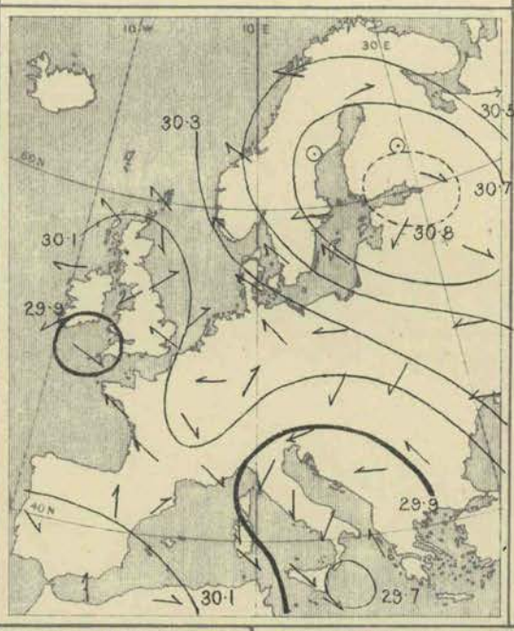
Barometer highest, 30·7 ins. and more to 30·5 ins. in an anticyclone over northern Europe; above 30·0 ins. in a ridge extending thence over the North Sea and Scotland, and above 30·3 ins. all over Russia. Lowest, below 29·5 ins. in a well marked depression over the Mediterranean, and below 29·9 ins. in another off the south-west of Ireland, and below 30·1 ins. in a shallow system near Yarmouth. The system off the south-west coast of Ireland moving south-eastwards, that off Yarmouth moving north-westwards.

Tuesday, 22nd December.

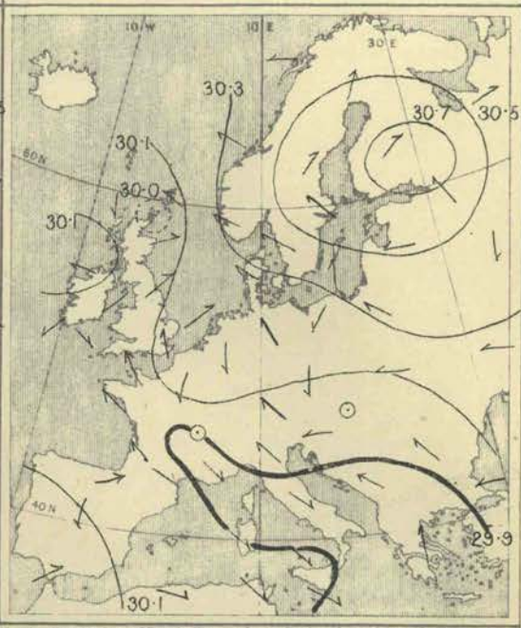
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with mist or fog in many places. Rain falling at Aberdeen and Prawle Point, and passing showers at Spurn Head; rain also reported at Copenhagen and Breslau and snow at Paris. Fine and bright in the west of Norway, and also in the southern parts of France and Italy. A little rain falling later at several of our own western and northern stations, but weather over our Islands tending to improve generally.

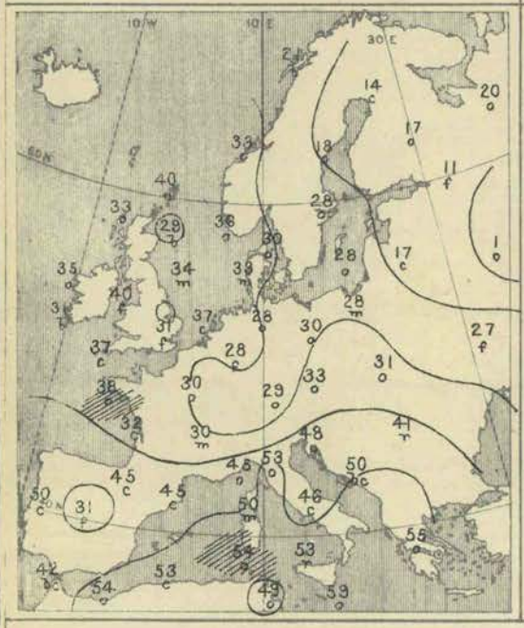
Temperature fallen in most countries; morning readings highest, 58° at Cagliari and Malta, 56° at Lesina, and 55° at Brindisi and La Calle; above 50° at several of the Mediterranean and Adriatic stations. Lowest, −2° Fahr. at Haparanda and Hernösand, +9° at Moscow and Riga, and 16° at Memel; below the freezing point over northern and central Europe generally, and also over central England. Daily maxima below 40° over the northern parts of our Islands, but thermometer reaching 53° at Scilly, exceeding 55° in the extreme south of France. Frost occurring over the United Kingdom at night.

Wind rather variable in our Islands, Easterly or North-Easterly in Ireland, and South-Easterly in most parts of Great Britain, but South-Westerly on the east coast of England; Northerly or North-Westerly in the east of Scotland. Easterly or South-Easterly over northern and central Europe as a whole, but calm over the northern parts of Sweden, and Westerly over northern Russia. Easterly or North-Easterly over Italy and the Adriatic, but North-Westerly in Spain and the extreme south of France. Subsequently becoming still more variable in our Islands. Shifting to North or North-West on our extreme north-west coasts.

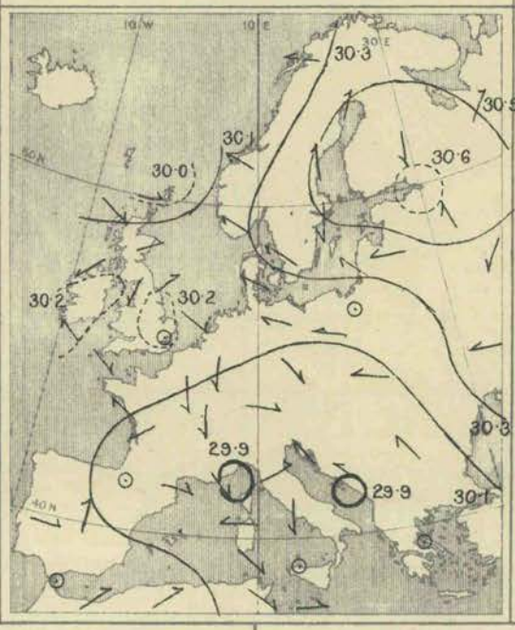
Barometer highest, 30·8 ins. and upwards over the Gulf of Finland and its immediate neighbourhood; 30·3 ins. and upwards in an anticyclone embracing northern and eastern Europe generally; 30·2 ins. and upwards in another system lying to the south-westward of the Spanish Peninsula. Lowest, 29·7 ins. and less in a depression lying to the southward of Italy; 29·9 ins. and less in a shallow system off our extreme south-west coasts; 30·0 ins and less in another shallow area over the east of Scotland. Depressions in our neighbourhood filling up later, and new anticyclone forming over the United Kingdom.

Wednesday, 23rd December.

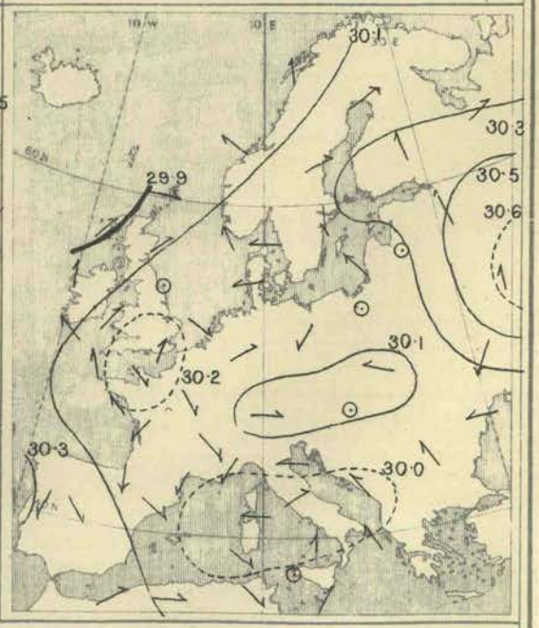
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy or misty over the greater part of our Islands, but fine and bright at some of the Irish and Scotch stations. Cloudy or dull in nearly all the continental countries, with fog in isolated places, and rain at Hermanstadt and Palermo. Dull, rainy weather setting in at night over the west and north of our Islands; fall rather heavy in the south of Ireland.

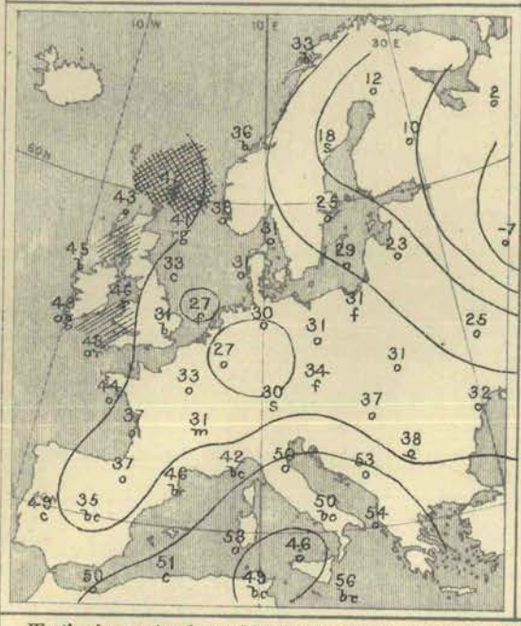
Temperature fallen in our Islands, and also in Russia, changed rather irregularly elsewhere. Morning readings highest, 59° at Malta, 55° at Athens and Patras, and 54° at Cagliari, Nemours, and Oran; above 50° at several of the Mediterranean stations. Lowest, 1° at Moscow, 11° at St. Petersburg, and 14° at Haparanda and Kharkov; below the freezing point over northern and central Europe generally, and also over the central parts of the United Kingdom. Daily maxima below 40° at many of the English stations, but thermometer exceeding 45° on our south-west coasts, and exceeding 50° in the south of France. Sharp frost occurring over Great Britain at night.

Wind very variable over Ireland and England, and also over the central and southern parts of the Continent; light from the Westward in Scotland; moderate from the Eastward or South-Eastward over Norway, Denmark, and the Baltic. Variable over northern Russia; Easterly in the south of that country. Southerly winds setting in later over the western and northern parts of our Islands, and increasing to a gale in the north of Scotland at night.

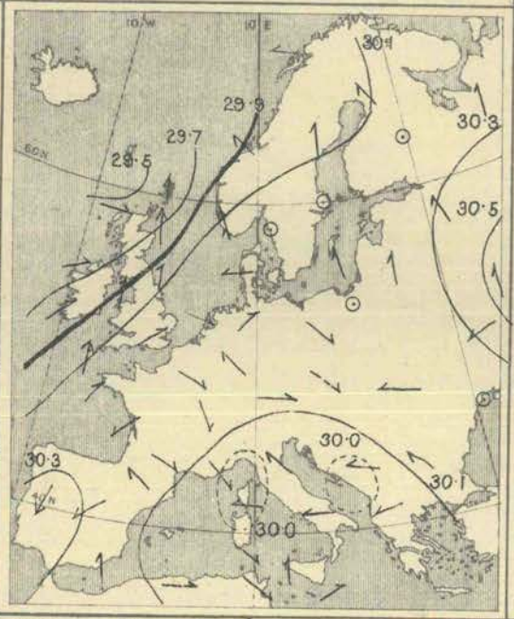
Barometer highest, 30·64 ins. at St. Petersburg; 30·2 ins. and upwards in an anticyclone covering the whole of northern and eastern Europe, and also in smaller systems lying respectively over England, Ireland, and the southern parts of the Spanish Peninsula. Lowest, 29·9 ins. and less in small shallow depressions lying over the Adriatic and extreme south of France; 30·0 ins. and less in another disturbance off the north of Scotland. New and rather deep depression appearing later off our extreme north-west coasts, where barometer fell briskly.

Thursday, 24th December.

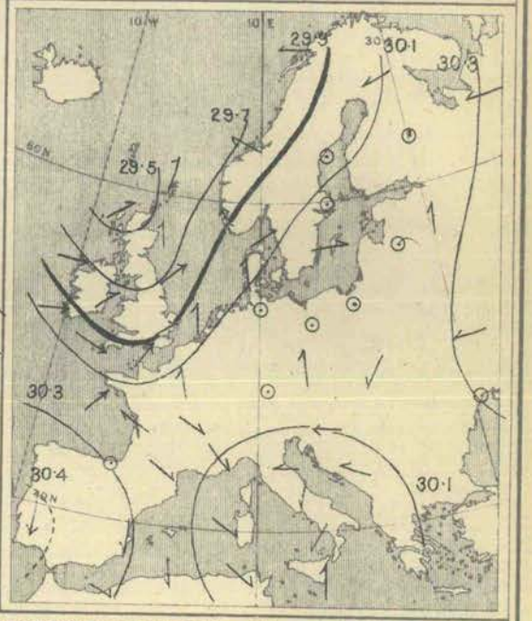
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain, the south-west of France, and the southern shores of the Mediterranean, as well as in the north-west of Norway; cloudy or overcast elsewhere, and very unsettled in the west and north of the British Islands, where rain fell generally. Rain falling later in all parts of the United Kingdom—the amounts being considerable in many places, but the falls separated by intervals of bright weather.

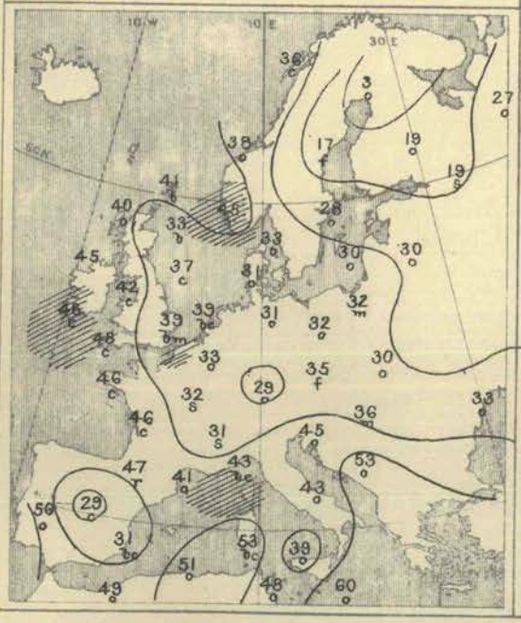
Temperature risen rapidly over our western and northern districts—as much as 24° at Parsonstown. Morning readings highest, 56° to 50° at several of the Mediterranean stations; 49° at Lisbon and at Valencia (Ireland), 46° at Holyhead, 43° at Stornoway. Lowest, (1) −7° at Moscow, +2° at Haparanda, 10° at Kuopio, and much below the freezing point over Russia, Finland, and Sweden generally; (2) 27° at Brussels, and ranging between 30° and 34° over the greater part of central Europe; (3) 27° at Yarmouth, 31° at York, Oxford, and in London. Rising later to rather above 50° on our south-west coasts, and to between 40° and 44° over the greater part of England.

Wind (1) very light and anticyclonic over Russia, the Baltic, and the central and south-western parts of continental Europe; (2) light to moderate, but cyclonic, over the Mediterranean; (3) Southerly over the British Islands, and blowing strongly at the Irish and Scotch stations; South-Easterly, light to moderate, in the north-west of Norway. Shifting to West and North-West (temporarily) over the British Islands later, and blowing strongly.

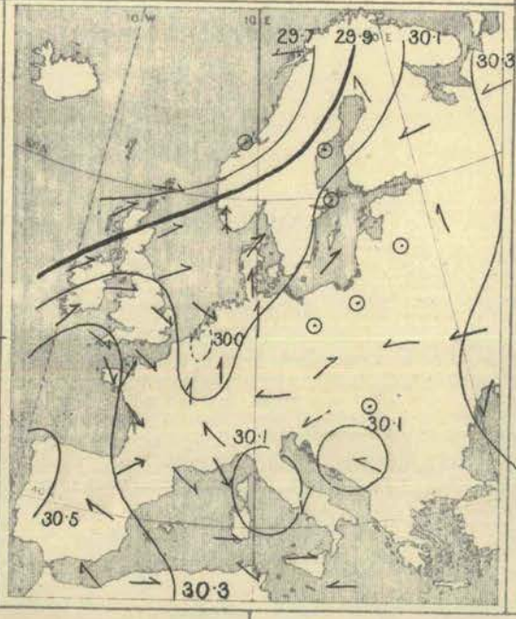
Barometer highest, (1) 30·5 ins. and more to 30·2 ins. in an anticyclone over Russia; (2) 30·3 ins. and more to 30·2 ins. in another spreading north-eastwards from the Iberian Peninsula to France and the Netherlands. Lowest, below 29·6 ins. over the Shetlands and north of Scotland, and below 30·0 ins. in a shallow, but complex, disturbance over the Mediterranean. A "V" shaped disturbance moving eastwards across the British Islands later, followed by a decided rise of the barometer.

Friday, 25th December.

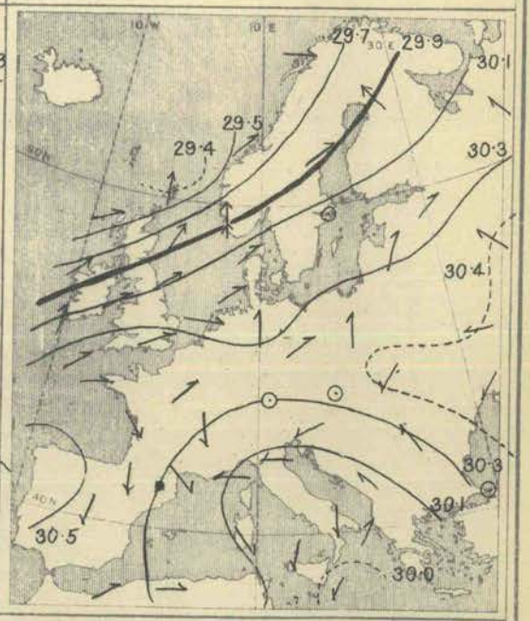
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Great Britain, and fair over Russia and central Europe; dull and rainy in Ireland, unsettled over France, with snow and rain in places, foggy in many parts of Germany and Austria. Rain falling later in all the northern and western parts of the British Islands, and showers over continental Europe—heavy over Italy and the south of France. Very heavy at the Puy de Dôme.

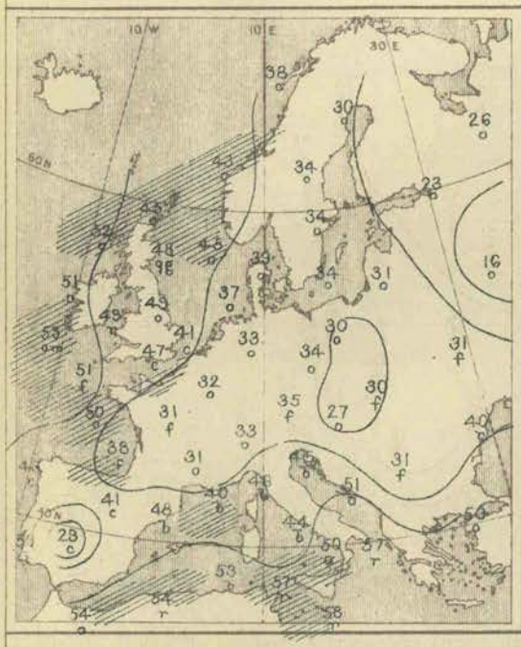
Temperature fallen temporarily over the United Kingdom. Morning readings highest, 60° at Malta, 53° at Lesina, 50° at Lisbon, 48° at Scilly and Valencia (Ireland). Lowest, 3° Fahr. at Haparanda, 19° at Kuopio and St. Petersburg, and below 30° all over Russia; 29° to 36° over central Europe, 30° at Belfort, 32° at Paris. Rising later to between 50° and 54° over our western and northern districts, and to above 45° over England; not touching 35° over Germany, nor exceeding 38° at Paris.

Wind (1) South-Westerly over Scotland and the west of Ireland, Southerly to Easterly on the Norwegian coast; North-Westerly over England, Brittany, and the west and south of France, but Southerly over the Netherlands and Denmark; very light and anticyclonic over Spain and over central Europe. Backing to the Southward over Ireland and Scotland later, and rising to a gale in force—freshening considerably over England in the night.

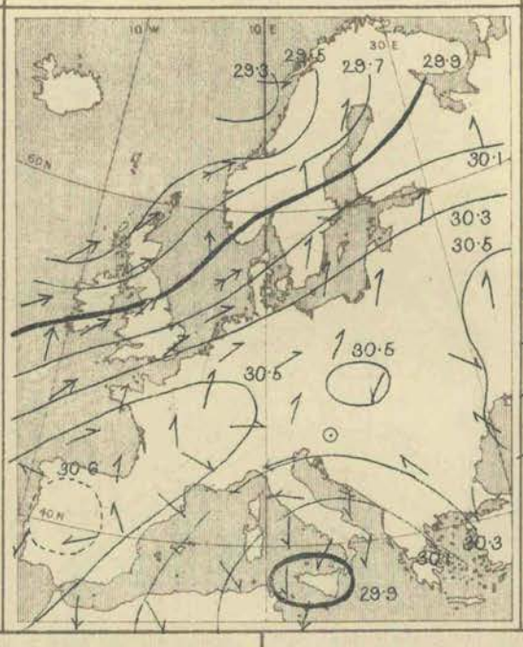
Barometer highest, 30·4 ins. and more to 30·2 ins. in the eastern part of an anticyclone, spreading in from the Atlantic over Spain, the Bay of Biscay, and France, and 30·3 ins. and more to 30·2 ins. in another spreading from Russia over central Europe. Lowest, below 29·7 ins. over the Shetland Islands and the north-west of Norway, and below 30·0 ins. at Malta. New depression skirting our north-western coasts later.

Saturday, 26th December.

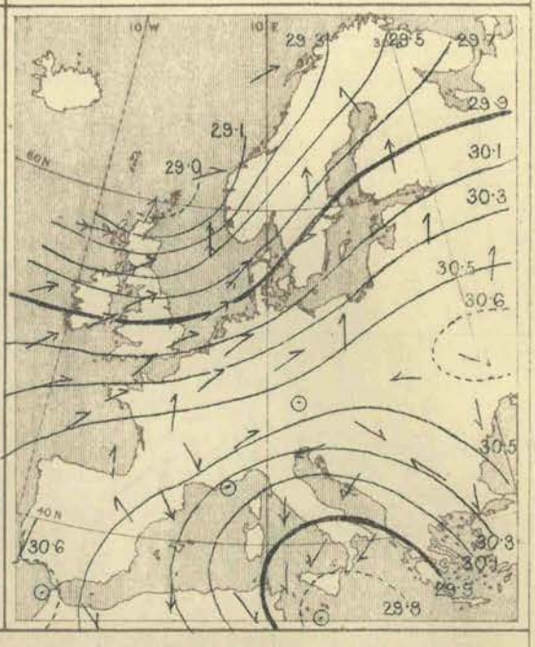
Temperature and Weather. — **8 a.m.**



Barometer and Wind. — **8 a.m.**



Barometer and Wind. — **6 p.m.**



Weather in morning fine and bright over southern Europe, dull or foggy over the eastern countries, very unsettled and rough over the British Islands and northern Europe, with rain in many places. Rain falling at intervals over the whole of the Kingdom during the day—amounts large at the Scotch stations, considerable in the north-west and north-0·6 in. at Stornoway.

Temperature risen fast over our Islands. Morning readings highest, 53° to 50° on the Irish coasts, at Scilly, and at Brest, 52° at Nairn and Leith, 47° in London. Lowest, 16° at Moscow, 23° at St. Petersburg, and below the freezing point all over Russia; 30° to 31° over central France. Rising later to 58° at Leith, and to considerably above 50° over the greater part of the Kingdom.

Wind South-Westerly and Southerly all over the United Kingdom and northern Europe; moderate to strong on the coasts of the United Kingdom, and blowing a strong gale from West-South-West at Bodö and the Scaw. Light and anticyclonic over Spain, central France, and Germany; moderate from between East and North over the Mediterranean. Blowing a gale from the South-Westward over Scotland later, and a strong breeze over England.

Barometer highest, 30·6 ins. and more over Spain, and exceeding 30·4 ins. over almost the whole of France, Germany, and central Russia. Lowest, (1) below 29·5 ins. over the north of Scotland, and below 29·3 ins. off the north-west of Norway; (2) below 29·9 ins. in a depression over the Mediterranean—having its central area over Sicily and the south of Italy. A large deep depression advancing to the northern parts of Scandinavia later, and barometer falling to below 29·0 ins. in the Shetlands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was highest (30·7 ins. and more to 30·3 ins.) over northern Europe, and lowest (29·5 ins. to 29·7 ins.) over the Mediterranean, so that the prevalent wind was Easterly to Northerly, and the weather cold over the northern countries generally, with snow and sleet in places, but especially cold over Sweden—the 8 a.m. reading at Hernösand on Dec. 21st being −3° Fahr. Very gradually, however, a change took place, the northern high pressure system moving south-eastwards, while an Atlantic cyclone approached Portugal, and depressions began to sweep over our western and northern districts. The result was that Southerly to Westerly and North-Westerly winds set in over the north-western and northern countries, with higher, but very unsteady, temperatures, and rain took the place of the sleet and snow.

The Mediterranean, however, was still subject to depressions (an important one was found near Malta on Saturday), so that in southern Europe Easterly winds were still prevalent, and heavy rains were reported. At this time the two series of cyclonic systems (viz., those of the coasts of north-western Europe and those of the Mediterranean) were separated by a broad band or "col" lying over central Europe, and uniting the anticyclone over Russia with that over the Atlantic and the Iberian Peninsula.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·5	− 5·3	1	− 10	SOUTHPORT	5·5	?	11	?
OSWALDKIRK (Yorkshire)	7·2	− 0·9	14	− 2	MANCHESTER (Oldham Road)	0·0*	?	0*	?
WORKSOP	4·5	− 3·2	9	− 5	COLWYN BAY	9·4	?	18	?
THURCASTON (Leicestershire)	6·6	− 0·4	13	0	NEWQUAY	12·0	+ 0·7	22	+ 1
MARGATE	8·3	− 2·3	15	− 4	TORQUAY	6·8*	− 5·2	12*	−10
WESTBOURNE (Sussex)	12·7*	+ 0·9	24*	+ 3	ARLEY COTTAGE (County Cavan)	6·1	− 2·7	12	− 5
BRIGHTON	9·6	− 1·9	18	− 3	GUERNSEY	5·9*	− 4·9	11*	− 7
EASTBOURNE	7·6	− 5·2	14	− 9					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIII. No. 53.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 2ND, 1897. [*Price 6d.* *Annual Subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 314.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From December 29th, 1895. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	30	45·9	36·3	41·3	3 above	11	+ 4	24	−10	2146*	+163	620*	−254
	1. SCOTLAND, EAST	53	28	45·2	34·9	40·2	4 above	9	+ 3	28	−13	2445	+ 77	784*	−176
	2. ENGLAND, N.E.	54	27	46·1	35·3	40·9	3 above	11	+ 4	28	− 9	2710	+126	608	−169
	3. ENGLAND, EAST	53	23	46·9	35·2	41·3	4 above	14	+ 7	28	−15	3052	+ 68	746	−136
	4. MIDLAND COUNTIES	53	21	47·0	34·6	41·1	4 above	14	+ 5	32	−10	3006	+ 46	762	−141
	5. ENGLAND, SOUTH	52	28	47·9	38·9	43·6	4 above	24	+12	9	−24	3454	+162	464	−190
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	25	47·6	38·1	43·0	4 above	23	+12	11	−17	2696	+160	516	−144
	7. ENGLAND, N.W.	55	23	48·6	36·9	43·0	3 above	28	+19	14	−16	3001	+226	439	−194
	8. ENGLAND, S.W.	52	23	48·6	37·9	43·5	3 above	28	+12	11	−12	3359	+224	384	− 95
	9. IRELAND, NORTH	57	28	48·2	36·5	42·7	3 above	28	+16	15	−11	2837*	+167	440	−132
	10. IRELAND, SOUTH	55	28	51·3	39·1	45·4	3 above	36	+16	8	−12	3318	+232	334	−103
	—CHANNEL ISLANDS	53	37	50·8	45·2	48·1	4 above	43	+17	0	− 8	4010	+332	67	−112

Rainfall.

	DISTRICTS. (See p. 314.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From December 29th, 1895. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	15	2 more	252	+ 2	56·3	+ 3·0
	1. SCOTLAND, EAST	4	6	1 less	213	+11	29·7	− 3·7
	2. ENGLAND, N.E.	4	5	0 (average)	196	+ 4	25·3	− 1·7
	3 ENGLAND, EAST	5	6	1 more	190	+ 2	25·5	− 1·2
	4. MIDLAND COUNTIES	5	7	1 more	184	+ 1	25·1	− 3·8
	5. ENGLAND, SOUTH	5	4	2 less	173	− 6	26·0	− 3·9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	22	9 more	216	+ 3	45·7	− 5·4
	7. ENGLAND, N.W.	5	15	8 more	200	0	35·5	− 0·6
	8. ENGLAND, S.W.	6	10	0 (average)	186	−18	34·1	− 6·8
	9. IRELAND, NORTH	5	16	7 more	226	− 6	39·7	+ 1·0
	10. IRELAND, SOUTH	6	16	7 more	199	−11	36·9	− 3·1
	—CHANNEL ISLANDS	6	4	4 less	208	−10	30·1	− 4·7

Bright Sunshine.

	DISTRICTS. (See p. 314.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From December 29th, 1895. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	− 1	7	− 1	990*	− 67	22	− 2
	1. SCOTLAND, EAST	9	+ 1	19	+ 4	1250*	− 32	28	− 1
	2. ENGLAND, N.E.	15	+ 7	30	+14	1254	− 30	28	− 1
	3 ENGLAND, EAST	21	+11	41	+22	1509	− 30	34	− 1
	4. MIDLAND COUNTIES	15	+ 7	28	+13	1350	− 16	31	0
	5. ENGLAND, SOUTH	15	+ 4	27	+ 6	1608	− 3	36	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	11	+ 3	22	+ 8	1349	− 1	30	0
	7. ENGLAND, N.W.	9	− 2	17	− 3	1256	+ 3	30	0
	8. ENGLAND, S.W.	11	0	20	0	1754	+ 93	39	+ 2
	9. IRELAND, NORTH	11	+ 2	22	+ 5	1249	− 28	28	− 1
	10. IRELAND, SOUTH	11	− 1	21	0	1456	− 5	33	0
	—CHANNEL ISLANDS	11	− 1	20	− 1	1926	+ 14	43	0

Bright Sunshine.—Owing to the absence of mean values for the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued mild and changeable very generally, considerable falls of rain having alternated with periods of clear sky.

Temperature was above the mean, the excess varying between 3° and 4°. The highest of the maxima were recorded during the middle of the week, and ranged from 57° in Ireland N. to 51° in Scotland N. The lowest of the minima, which were recorded on January 2nd, ranged from 21° in the Midland counties, and 23° in England S.W., N.W., and E., to 30° in Scotland N., and to 37° in the Channel Islands. During the greater part of the week the minima, even at the northern and inland stations, were much above the freezing point.

Rainfall was more than the mean over the Kingdom as a whole, but was just equal to the normal in England S.W., and N.E., and rather less than it in Scotland E., England S., and the Channel Islands.

Bright Sunshine exceeded the mean in most localities, but was somewhat deficient in some of the western districts, as well as in Scotland N. and the Channel Islands. The percentage of the possible duration ranged from 41 in England E., and from 30 in England N.E. to 19 in Scotland E., to 17 in England N.W. and to 7 in Scotland N.

Barometer and Wind.—During the whole of this period depressions, some of them rather deep, skirted our western and north-western coasts, causing Southerly to South-Westerly winds of varying strength in all districts. In the west and north-west the winds occasionally increased to the force of a gale. The only disturbance that appeared directly over the Kingdom was a well defined secondary system which passed across the northern parts of Ireland and England on the 28th. This depression produced a slight gale from the Westward at many of the southern stations, and a North-Westerly gale in the south of Ireland.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 313 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	47	35	45·0	38·6	41·9	+ 2·8	8	15	6	0·63	−0·29	*	*	*	*
	Stornoway Ⓢ	50	31	46·4	34·6	40·7	+ 1·9	12	30	6	1·35	+0·13	4·1	− 2·1	9	− 4
	Wick Ⓢ	49	32	44·4	34·7	39·7	+ 2·1	7	28	4	0·27	−0·33	*	*	*	*
	Lairg Ⓢ	50	32	45·9	34·7	40·5	+ 4·1	11	30	5	0·68	−0·19	*	*	*	*
	Glencarron Ⓢ	49	30	45·7	36·3	41·2	+ 4·1	10	24	6	2·45	+0·18	*	*	*	*
	Fort Augustus Ⓢ	51	31	46·8	35·9	41·6	+ 3·6	13	26	6	1·74	+0·64	3·4	+ 0·9	7	+ 2
	Fort William Ⓢ	51	36	47·1	39·2	43·3	+ 4·4	21	8	5	3·24	+1·10	2·8	− 1·4	6	− 2
1. SCOTLAND, E.	Nairn	50	29	46·7	34·9	41·0	+ 3·3	13	30	4	0·40	−0·05	*	*	*	*
	Aberdeen	48	32	43·3	35·3	39·5	+ 1·9	4	26	3	0·37	−0·26	16·2	+ 5·8	35	+14
	Braemar Ⓢ	47	29	42·9	33·4	38·3	+ 3·9	3	32	4	0·52	−0·18	6·5†	+ 1·5†	14†	+ 4†
	Ochtertyre Ⓢ	51	28	46·9	36·0	41·7	+ 5·2	14	26	4	1·24	+0·22	*	*	*	*
	Leith	53	30	47·6	37·1	42·6	+ 4·0	25	14	5	0·38	−0·03	*	*	*	*
	Marchmont Ⓢ	49	28	43·6	32·6	38·3	+ 2·1	4	35	5	0·58	−0·06	6·0	− 2·3	13	− 4
2. ENGLAND, N.E.	Alnwick Castle	54	30	46·3	34·6	40·7	+ 2·9	12	31	5	0·46	−0·13	*	*	*	*
	Durham	52	27	45·8	33·8	40·0	+ 1·3	11	33	3	0·32	−0·23	15·6	+ 5·6	31	+11
	Shields	53	31	46·7	35·0	41·1	+ 2·8	13	30	3	0·50	+0·04	*	*	*	*
	Scarborough Ⓜ	51	28	44·8	35·3	40·2	+ 2·0	8	26	3	0·51	−0·04	*	*	*	*
	York	53	28	47·7	35·0	41·6	+ 4·1	16	30	6	0·56	+0·10	13·6	+ 7·2	27	+15
	Spurn Head	49	35	45·3	38·1	41·8	+ 3·5	9	17	4	0·80	+0·40	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	53	23	47·3	33·5	40·7	+ 3·8	15	36	5	0·77	+0·27	22·1	+12·1	43	+24
	Yarmouth	49	30	45·1	37·7	41·6	+ 3·8	9	19	4	0·56	+0·05	*	*	*	*
	Geldeston	52	23	47·7	35·2	41·7	+ 3·7	16	30	4	0·46	+0·02	22·0	+10·7	42	+21
	Cambridge	52	23	47·9	34·9	41·7	+ 3·5	17	31	6	0·28	−0·11	20·2	+10·0	38	+19
	Rothamsted	50	23	46·7	34·6	40·9	+ 3·5	13	31	7	0·74	+0·19	20·8	+10·8	39	+21
4. MIDLAND COUNTIES	Harrogate Ⓜ	51	31	45·3	35·2	40·5	+ 3·8	9	28	5	0·98	?	8·8	?	17	?
	Bawtry (Hesley Hall)	52	26	47·7	33·4	40·8	+ 3·7	16	36	6	0·49	+0·04	*	*	*	*
	Loughborough	53	23	48·0	34·4	41·5	+ 4·0	17	33	5	0·77	+0·29	*	*	*	*
	Stamford (Duddington)	52	21	46·9	33·6	40·5	+ 3·7	14	35	6	0·62	+0·14	*	*	*	*
	Cheadle Ⓜ	50	28	45·5	35·6	40·8	+ 4·1	10	27	5	0·87	+0·19	*	*	*	*
	Shirley (near Solihull)	49	24	46·3	33·7	40·3	+ 3·2	12	34	6	0·64	?	*	*	*	*
	Churchstoke Ⓜ	52	25	47·7	36·2	42·2	+ 4·3	26	16	5	0·81	+0·12	18·9	+ 9·1	36	+18
	Hereford Ⓜ	52	21	48·3	33·7	41·3	+ 2·9	18	36	4	0·36	−0·20	*	*	*	*
	Cirencester	50	23	46·7	34·6	40·6	+ 3·2	13	33	5	0·65	−0·02	15·0	+ 4·6	28	+ 9
	Oxford	52	25	47·6	36·3	42·2	+ 3·8	25	16	5	0·43	−0·05	17·3	+ 7·3	33	+15
5. ENGLAND, S.	London	51	28	47·9	37·6	43·0	+ 4·0	25	12	5	0·38	−0·11	6·6†	+ 1·4†	12†	+ 2†
	North Foreland	50	35	47·1	40·0	43·7	+ 4·4	20	6	4	0·14	?	*	*	*	*
	Dungeness	49	32	47·4	40·1	43·9	+ 4·1	21	5	5	0·33	−0·27	*	*	*	*
	Hastings (St. Leonards)	50	35	48·1	39·4	43·9	+ 4·1	24	7	4	0·66	+0·02	14·4	+ 0·9	27	+ 3
	Southampton	52	28	49·3	38·2	44·0	+ 4·2	30	11	5	0·65	−0·07	16·2	+ 4·6	30	+ 9
	Hurst Castle	50	30	47·7	38·3	43·2	+ 2·3	24	10	4	0·40	−0·25	*	*	*	*
	Stowell Ⓜ												*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	51	55	49·8	39·2	44·7	+ 4·5	31	8	6	2·67	+0·65	*	*	*	*
	Glasgow	50	33	46·3	38·0	42·3	+ 4·1	19	11	4	1·81	+0·91	7·3	+ 2·5	15	+ 6
	Ardrossan	49	34	46·3	40·1	43·3	+ 3·2	17	5	5	1·77	+0·90	*	*	*	*
	Glenlee Ⓢ	51	25	46·4	35·0	40·9	+ 3·5	12	29	5	2·49	+0·96	*	*	*	*
	Douglas (Isle of Man)	52	30	49·1	38·2	43·9	+ 3·0	11	29	5	2·20	+1·18	15·0	+ 4·8	29	+10
7. ENGLAND, N.W	Stonyhurst	51	29	45·9	36·1	41·2	+ 3·5	11	25	5	1·78	+0·78	9·0	+ 2·0	18	+ 5
	Blackpool Ⓜ	53	27	47·4	33·6	40·8	+ 2·3	15	35	4	1·83	+1·14	1·0	− 6·0	2	−11
	Manchester (Prestwich)	52	23	49·8	34·9	42·7	+ 5·0	35	20	6	1·61	+0·83	4·6	?	9	?
	Liverpool Obsy. (Bidston)	53	31	48·3	37·4	43·1	+ 3·6	27	13	5	1·03	+0·49	*	*	*	*
	Llandudno Ⓜ	55	33	51·2	40·1	45·9	+ 4·3	35	5	5	1·15	+0·47	*	*	*	*
	Holyhead	50	31	48·7	39·1	44·1	+ 1·6	27	8	4	1·85	+1·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	23	47·9	31·9	40·2	+ 2·0	17	42	6	1·77	+0·57	*	*	*	*
	Pembroke	50	40	48·3	42·9	45·7	+ 7·6	26	0	5	0·95	+0·07	10·2	− 1·0	19	− 1
	Clifton	51	30	47·7	37·4	42·8	+ 3·5	25	13	5	0·80	+0·05	*	*	*	*
	Arlington (N. Devon)	50	29	47·3	35·3	41·5	+ 1·5	15	29	5	1·36	+0·19	*	*	*	*
	Cullompton Ⓜ	52	24	49·2	35·6	42·7	+ 3·5	32	18	5	0·64	−0·14	10·2	+ 0·7	19	+ 3
	Falmouth	52	35	49·9	41·7	46·0	+ 2·1	29	1	6	0·83	−0·35	12·2	− 0·6	22	0
	Plymouth	52	32	49·4	40·1	44·9	+ 2·8	28	5	6	0·71	−0·16	8·2	− 3·4	15	− 5
	Prawle Point	51	34	48·7	38·6	43·9	+ 1·6	28	10	6	0·54	−0·21	*	*	*	*
9. IRELAND, N.	Malin Head	50	28	46·9	37·1	42·2	+ 0·6	22	14	4	1·18	?	*	*	*	*
	Londonderry	52	33	47·7	37·6	42·9	+ 2·9	25	12	5	1·37	+0·46	*	*	*	*
	Edenfel (Omagh)	50	29	46·6	35·1	41·1	+ 3·7	13	29	6	1·60	+0·79	*	*	*	*
	Belmullet	52	36	49·3	40·4	45·3	+ 2·4	30	4	6	2·57	+1·35	*	*	*	*
	Markree Castle	52	29	48·4	35·5	43·2	+ 4·0	36	18	6	1·59	+0·69	10·3	+ 1·6	20	+ 4
	Armagh	52	32	47·8	36·2	42·2	+ 3·5	26	16	4	1·14	+0·50	12·3	+ 3·3	24	+ 7
	Donaghadee	51	33	47·7	36·1	42·1	+ 1·4	25	17	5	1·11	+0·47	*	*	*	*
	Edgeworthstown	57	30	50·8	? 33·6	? 42·5	? + 4·3	? 39	? 24	6	1·82	+1·13	*	*	*	*
10. IRELAND, S.	Dublin	55	34	51·7	39·6	45·9	+ 4·3	37	7	5	0·69	+0·17	14·2	+ 1·6	27	+ 3
	Parsonstown	53	32	50·7	36·3	43·8	+ 3·8	37	16	5	1·44	+0·76	11·3	+ 0·5	22	+ 2
	Kilkenny	53	28	50·7	34·7	43·0	+ 2·3	38	20	6	1·34	+0·59	*	*	*	*
	Roche's Point	52	36	50·7	41·0	46·0	+ 2·4	32	3	6	0·75	−0·44	*	*	*	*
	Valencia	54	34	51·9	40·9	46·3	+ 1·7	37	3	7	2·68	+1·28	7·4	− 3·7	14	− 6
	Killarney	55	31	52·3	40·2	46·5	+ 3·4	39	5	6	2·72	?	*	*	*	*
	Foynes	54	34	51·2	40·7	46·2	+ 5·0	35	4	5	1·80	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	42	51·4	45·6	48·6	+ 2·4	46	0	6	0·28	−0·59	9·3	?	17	?
	Jersey	52	37	50·1	44·7	47·5	+ 4·5	39	0	6	0·58	−0·20	14·0	− 1·0	25	− 1

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

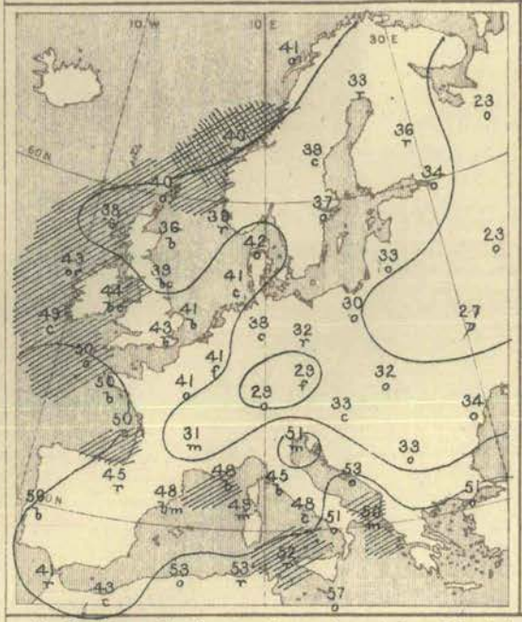
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 27th December.

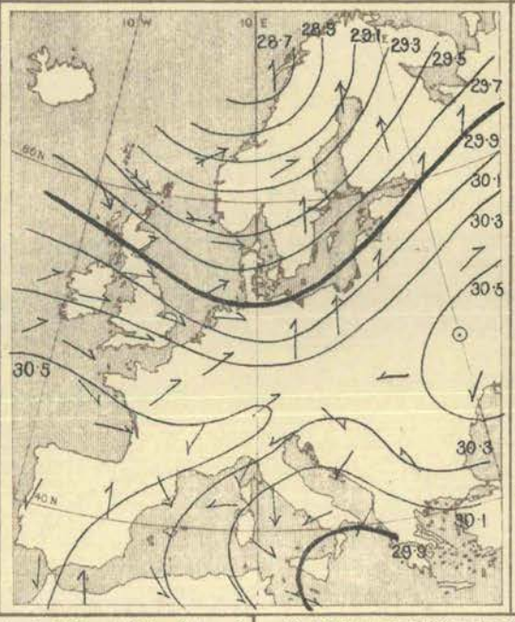
Temperature and Weather.

8 a.m.

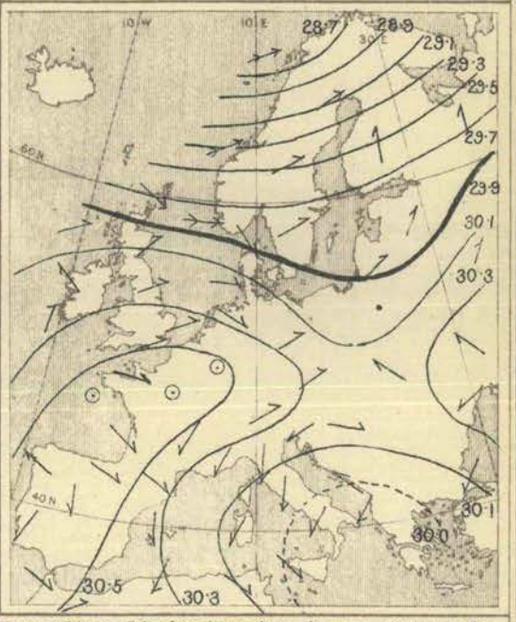


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but rain falling at Belmullet, and snow at Stornoway. Dull at most of the continental stations, with rain in several parts of Norway, Denmark, and Germany, as well as at Biarritz; snow falling at Nicolaieff. Rain setting in later in the west of our Islands, and spreading quickly eastwards—amount large in Ireland; rain or snow falling also in many parts of northern and central Europe.

Temperature fallen in our Islands, and also in Germany; risen in most other countries. Morning readings highest, 57° at Malta, 56° at Brindisi, and 53° at Lesina, Algiers, and La Calle; touching 50° at Scilly, Brest, and Rochefort. Lowest, 23° at Moscow, 25° at Kharkov, 27° at Kiev, and 28° at Archangel; below the freezing point in most parts of eastern and central Europe. Rising during day to 50° and upwards at many of our own western and south-western stations, and also in the west and south of France; exceeding 55° in many parts of Spain and Italy, and reaching 66° at Alicante.

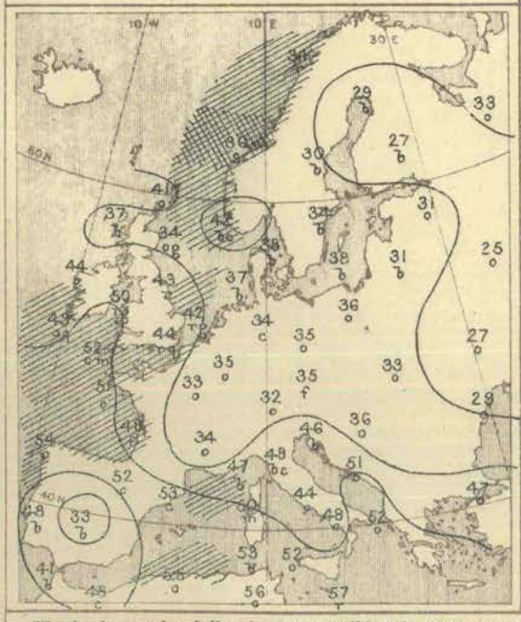
Wind light to fresh from the Westward in our Islands; strong from the same quarter on the eastern shores of the North Sea, with a gale in the west of Norway; Southerly over Germany, the Baltic, and the northern parts of Russia and Scandinavia. Calm or variable over Austria and the south of Russia; Northerly or North-Easterly over Italy and the Adriatic, and also over the Spanish Peninsula; North-Westerly in the south of France. Subsequently backing to the Southward in the west of Ireland, and to the South-Westward on our western and northern coasts generally; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in an anticyclone spreading from the Atlantic over Spain and the southern parts of France and Germany, and also in another area lying over the south of Russia. Lowest, 28·7 ins. and less in a depression off the north-west of Norway (gradients steep over northern Europe generally); 29·9 ins. and less in a shallow disturbance lying to the southward of Italy. No important change occurring later in general distribution of pressure, but new depression approaching Ireland in evening

Monday, 28th December.

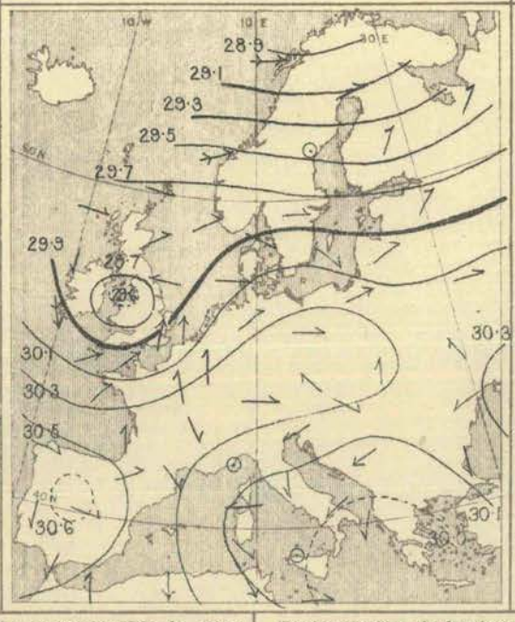
Temperature and Weather.

8 a.m.

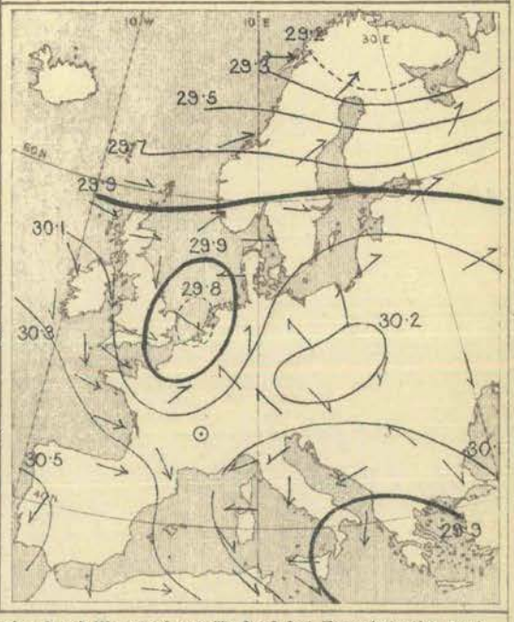


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy over all but the extreme northern parts of our Islands. Fine over Finland, Sweden, and Denmark, as well as over the Spanish Peninsula, the extreme south of France, and northern Italy; dull in most other parts of the Continent, with fog at many of the French stations, and rain and snow in the west of Norway. Sky clearing later in the west and north of our Islands, but rain setting in over France, the Netherlands, Denmark, and western Germany. Rain falling also over southern Italy—heavily at Brindisi.

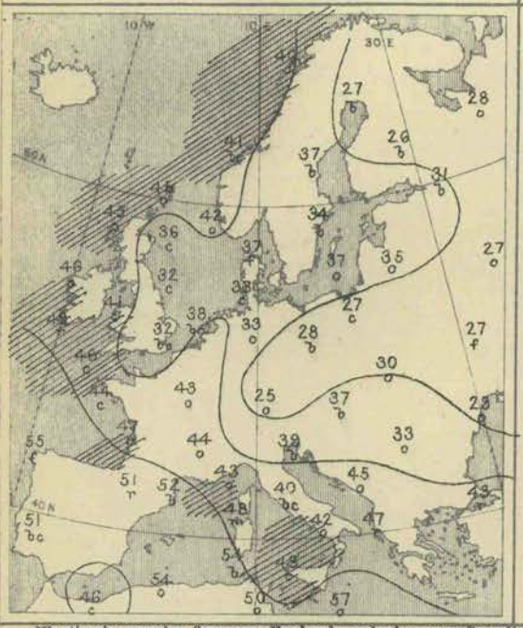
Temperature risen over England and Ireland, and also over Germany and Austria; fallen in most other countries. Morning readings highest, 57° at Palma and Malta, 56° at La Calle, and 55° at Algiers; above 50° in the west of France, and also on our own extreme south-west coasts. Lowest, 22° at Kharkov, 25° at Moscow, and 27° at Knopio and Kiev; below the freezing point in most parts of Sweden and Russia, and very little above it in the east of Scotland. Rising during day to between 50° and 52° at most of the English and Irish stations, and to 55° and upwards over southern Europe, the highest readings of all being 61° at Malta and 60° at Perpignan. Frost occurring over our Islands at night.

Wind strong from the Southward or South-Westward over England, but Easterly in the south of Scotland and the north of Ireland, and Northerly in the west of Ireland, with a gale at Donaghadee and Valencia. Westerly in the north of Scotland, and also over the greater part of northern and central Europe, with a gale on the Norwegian coasts. North-Easterly over Italy and the Adriatic, as well as in the south of Russia; North-Westerly in the extreme south of France, Northerly in Spain. Subsequently shifting to the North-Westward or Northward over our Islands generally, and falling light in Ireland.

Barometer highest, 30·60 ins. at Madrid; 30·3 ins. and upwards in an anticyclone extending from the Spanish Peninsula over France and Germany, and also in another system over the south of Russia. Lowest, 28·9 ins. and less in the north of Scandinavia; 29·6 ins. and less in a well marked depression with its centre over the Irish Sea. Depression subsequently travelling in an East-South-Easterly direction across England, and barometer rising briskly on our western and northern coasts.

Tuesday, 29th December.

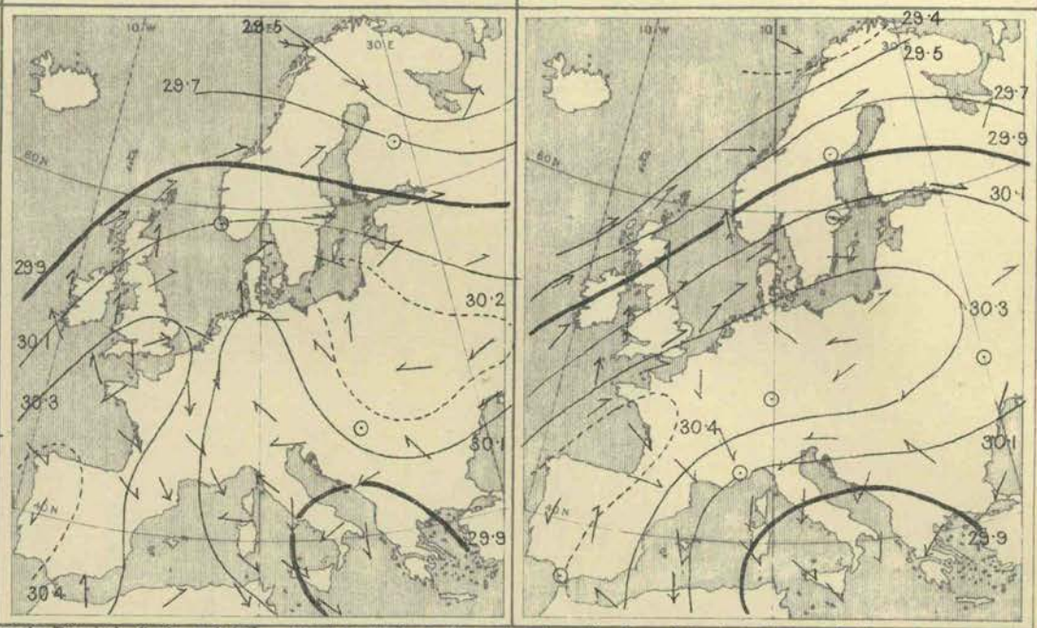
Temperature and Weather. — 8 a.m.



Weather in morning fine over England, and also over Scandinavia, Denmark, Spain, and the south of France. Cloudy or dull in nearly all other parts of Europe, with rain in the south of Ireland, and also at Biarritz, Bilbao, and Brindisi; snow reported at Ulcaborg and Nicolaieff. Rainy weather spreading later to nearly all parts of our Islands and their immediate neighbourhood, amounts large on our north-west coasts.

Temperature risen in Scotland, and also over Spain, central France, and Scandinavia; fallen elsewhere. Morning readings highest, 57° at Malta and La Calle, 55° at Corunna, and 54° at Cagliari and Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, (1) 19° at Prague, 21° at Kharkov, 24° at Breslau, and 25° at Munich; (2) 29° at Loughborough and 31° at York. Rising during day to 50° and upwards at several of our western stations, to 55° and upwards over southern Europe generally, and to 63° at Barcelona. Brisk rise taking place over England at night.

Barometer and Wind.

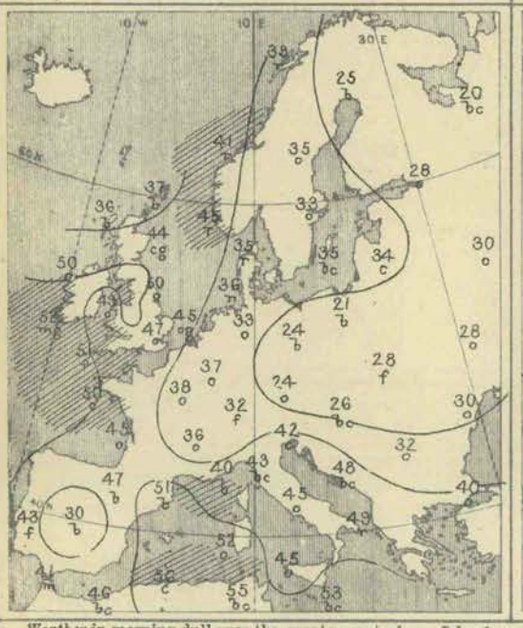


Wind Southerly in the west and north of our Islands, and strong in force on our extreme western coasts. South-Westerly or Westerly over Scandinavia and northern Russia, with a gale at Bodö. Easterly or North-Easterly in the south of Russia, variable or South-Easterly over Germany and Austria; Northerly or North-Westerly over the Netherlands, the south of England, and the greater part of France and Italy. Subsequently backing to the South-Westward in the south of England; increasing to a gale from the Southward on some parts of our north and north-west coasts, and also at Skudesnaes.

Barometer highest, 30·49 ins. at Corunna and Lisbon; 30·2 ins. and upwards in an anticyclone extending from the southward over the whole of England, and also in another system over the Baltic, eastern Germany, and the neighbouring parts of Russia and Austria. Lowest, 29·5 ins. and less over the extreme northern parts of Europe; 29·8 ins. and less in a depression off the north-west of Scotland; 29·9 ins. and less in a shallow area over Greece and the south of Italy. Scotch depression subsequently moving northwards, but new disturbances approaching our western coasts.

Wednesday, 30th December.

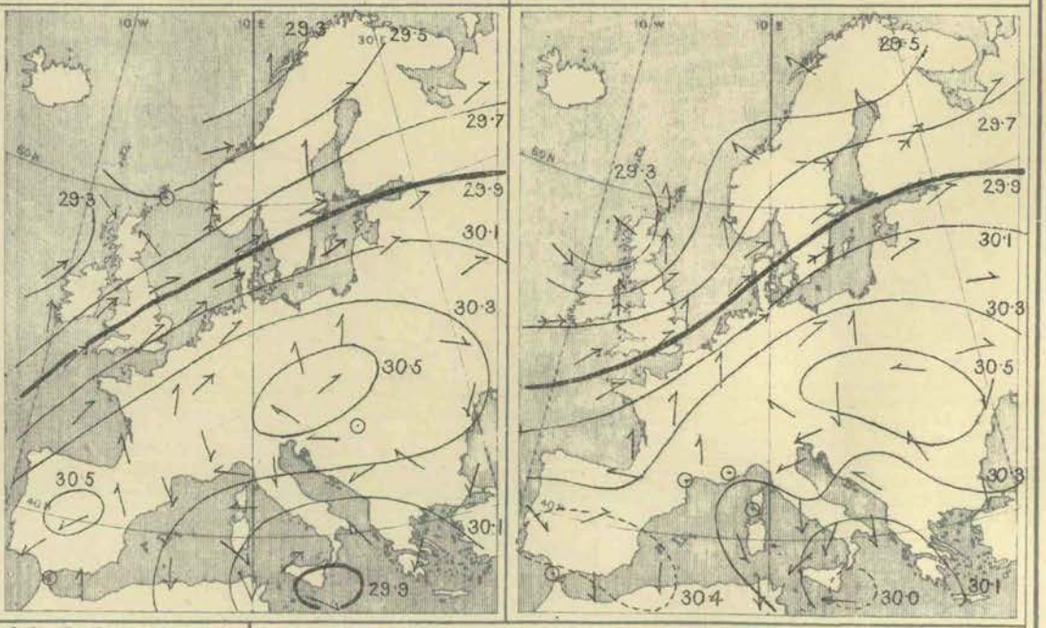
Temperature and Weather. — 8 a.m.



Weather in morning dull over the greater part of our Islands and the Continent, with rain on our western and southern coasts, as well as in Norway, Denmark, and the south of Sweden; rain falling also at Brindisi. Fine in the Shetlands and Hebrides, as well as over Spain, the south of France, and northern Italy. Rain falling later over nearly the whole of our Islands and their neighbourhood—rather heavily in the extreme north-west.

Temperature risen briskly in our Islands, and to a less extent on the eastern shores of the North Sea and in Italy, fallen elsewhere. Morning readings highest, (1) 56° at Algiers, 55° at La Calle, and 53° at Malta; (2) 52° at York, Parsonstown, and Valencia (Ireland); touching 50° or more in several parts of Ireland and England. Lowest, (1) 20° at Prague, 21° at Neufahrwasser, and 22° at Warsaw; (2) 20° at Archangel and 25° at Ulcaborg; below the freezing point over eastern and central Europe generally. Rising during day to between 50° and 53° in many parts of our Islands and France; exceeding 55° in Spain and Italy, and reaching 59° at Oporto

Barometer and Wind.



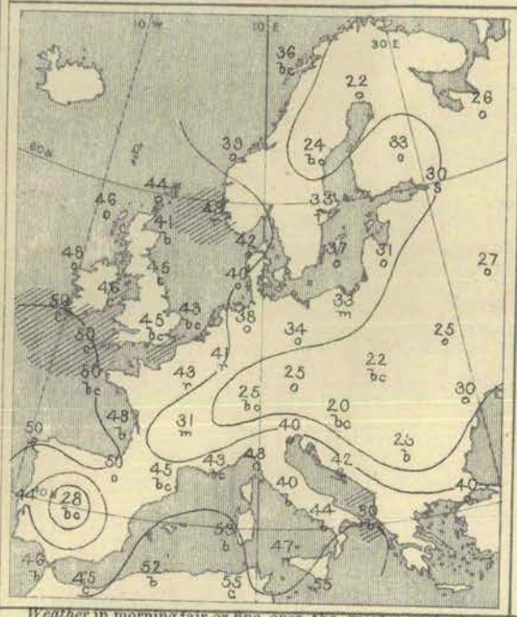
Wind Southerly or South-Westerly over north-western and northern Europe generally; strong in force on our own western coasts, and blowing a gale at Skudesnaes, Wisby, and Hangö. Northerly in the south of Russia, variable over Austria and south Germany; Easterly to Northerly over Italy, Spain, and the south of France. Subsequently increasing to a moderate or fresh gale in many parts of our Islands; veering to the Westward in Ireland in evening. South-Westerly gale springing up in Finland in evening.

Barometer highest, 30·5 ins. and upwards over central Spain, and also over Poland and eastern Germany. Lowest, 29·3 ins. and less in a depression off the north-west of Norway; 29·5 ins. and less in another disturbance off the north-west of Ireland; 29·9 ins. and less in a shallow system to the southward of Sicily. Depression off Irish coasts subsequently moving north-eastwards, and barometer falling briskly over the northern parts of our Islands.

Thursday, 31st December.

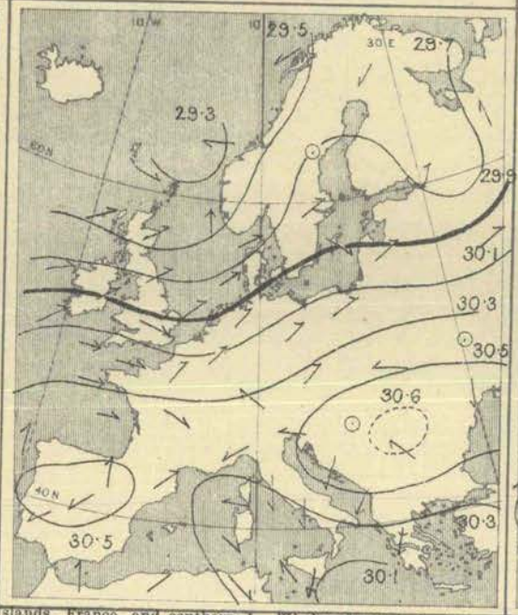
Temperature and Weather.

8 a.m.

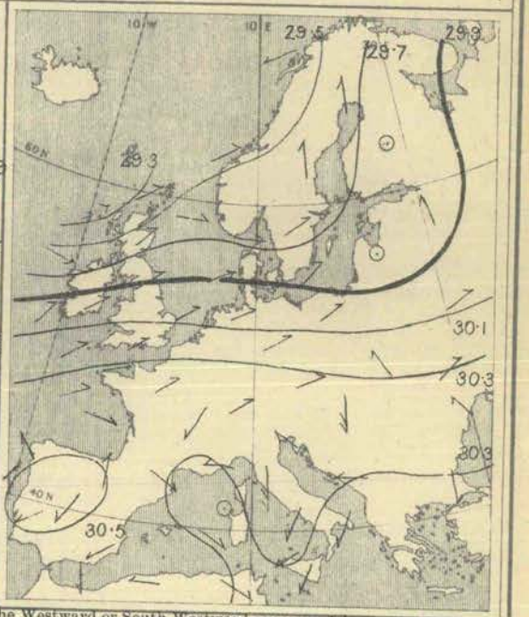


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands, France, and southern Europe, but dull and showery on our extreme north-west coasts. Dull in most of the northern and central countries, with fog in many places, and with rain in the south of Scandinavia, as well as at Brussels, Paris, and Limoges. A little rain falling later in most parts of our Islands and their neighbourhood, and snow in the northern parts of Sweden and Russia. Lightning seen in the north of Scotland in evening.

Temperature fallen in England and Ireland, and also in Austria, but risen in most other countries. Morning readings highest, 55° at Malta and La Calle, 53° at Cagliari, and 52° at Algiers and Sfax; touching 50° on our own extreme south-west coasts, and above 45° in all but the extreme northern and eastern parts of the United Kingdom. Lowest, (1) 18° at Cracow, 20° at Buda-Pesth, and 22° at Vienna and Lemberg; (2) 22° at Haparanda and 24° at Hernösand; below the freezing point over eastern and central Europe generally. Rising during day to 50° and upwards in many parts of our Islands, and also in the west and south of France; exceeding 55° over the Spanish Peninsula and the south of Italy.

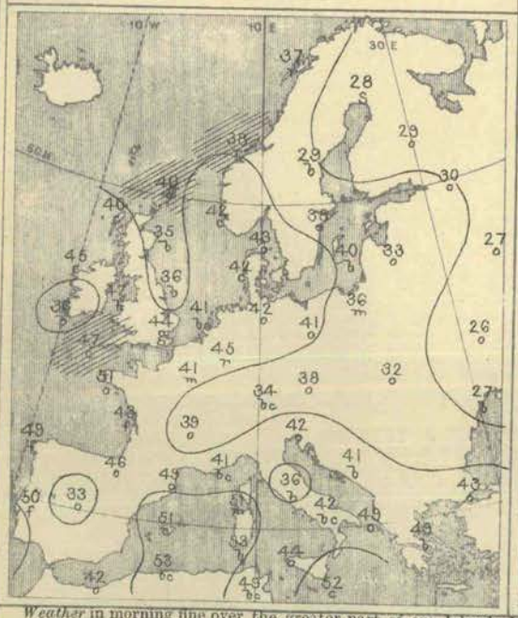
Wind moderate to fresh from the Westward or South-Westward over our Islands, the Netherlands, Denmark, Germany, and the north of France; calm or variable over Finland and the north of Sweden; Easterly in the west of Norway. Easterly or South-Easterly in Austria; Northerly or North-Easterly over the greater part of Italy and the Spanish Peninsula; variable in the south of France. Subsequently increasing to a moderate or fresh gale from the South-West on our extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over central Spain, and also over Austria and the extreme south of Russia; 30·3 ins. and upwards in an anticyclone covering all the more southern parts of the Continent. Lowest, 29·3 ins. and less in a depression lying to the northward of the Shetlands; 30·1 ins. and less in a shallow system near Malta. Depression in north subsequently moving north-eastward, but new disturbance skirting the north-west of Scotland in evening.

Friday, 1st January, 1897.

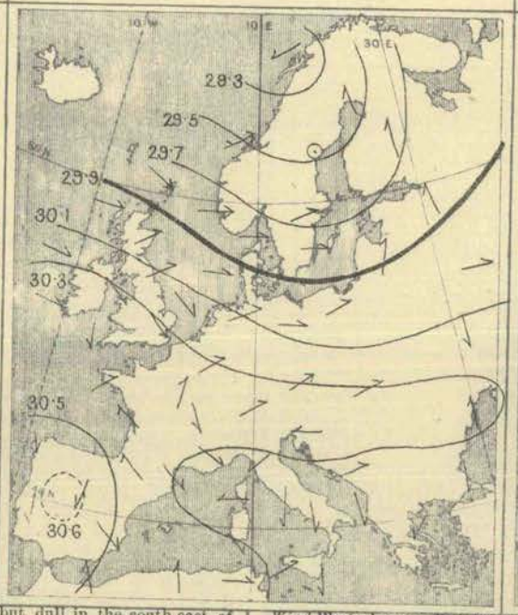
Temperature and Weather.

8 a.m.

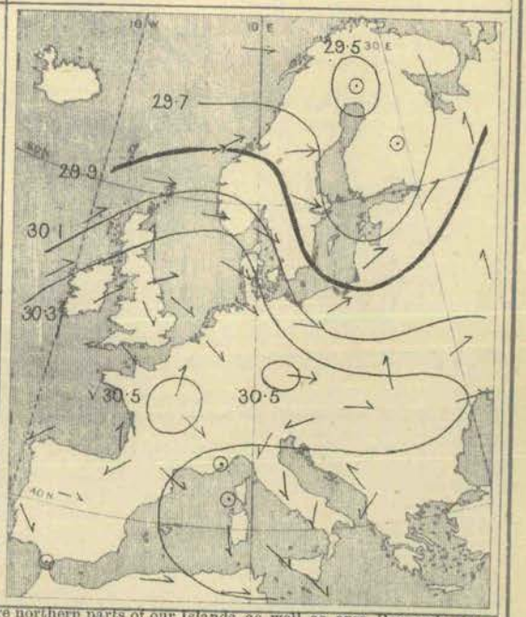


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but dull in the south-east of England, with rain at the North Foreland. Dull at most of the continental stations, with rain in the west of Norway, and also at Helsingfors, Swinemunde, and Brussels; snow reported at Haparanda. Fine in Italy and the extreme southern parts of France and Russia. Slight rain falling later in Ireland and the extreme north of Scotland, as well as at several of the German stations. Bright aurora seen at Wick and Aberdeen.

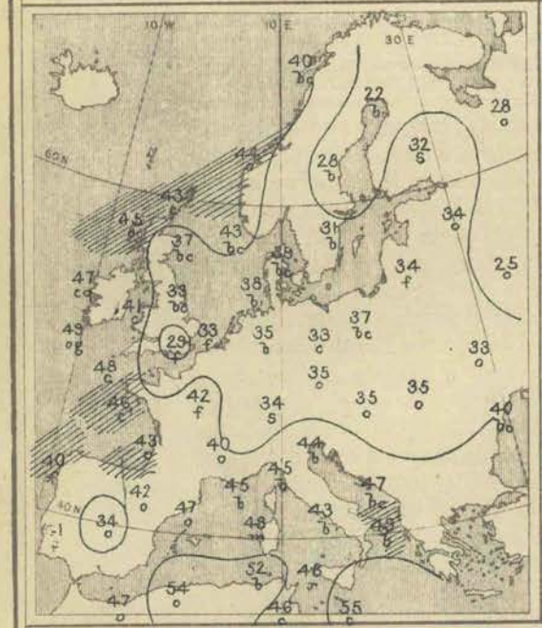
Temperature fallen in most of the western countries, risen or changed irregularly elsewhere. Morning readings highest, 54° at Malta, 53° at Cagliari and Algiers, and 51° at Palma and Sanguinaire; above 45° over the Bay of Biscay, and also in the Scilly and Channel Islands. Lowest, 26° at Kiev and Kharkov, and 27° at Moscow, Odessa, and Nicolaieff; below the freezing point in many parts of Russia and Sweden. Rising during day to 45° and upwards in many parts of the United Kingdom, to 50° and upwards in the west of France, and to 55° and upwards over Spain and southern Italy. Sharp frost occurring over England at night; sheltered thermometer falling to 23° at Loughborough and Cambridge.

Wind Westerly over all the more northern parts of our Islands, as well as over Denmark, the Baltic, and the southern parts of Scandinavia; moderate in force generally, but blowing a gale at Christiansund. South-Westerly in Germany; Southerly over the northern parts of Russia. Light from the Northward in the south of our Islands; South-Westerly over Belgium and central France; South-Easterly in the west of France. Northerly over the greater part of Spain and Italy. Subsequently veering to the North-Westward in Denmark and the south of Scandinavia, but backing to the South-Westward in the west and north of our Islands.

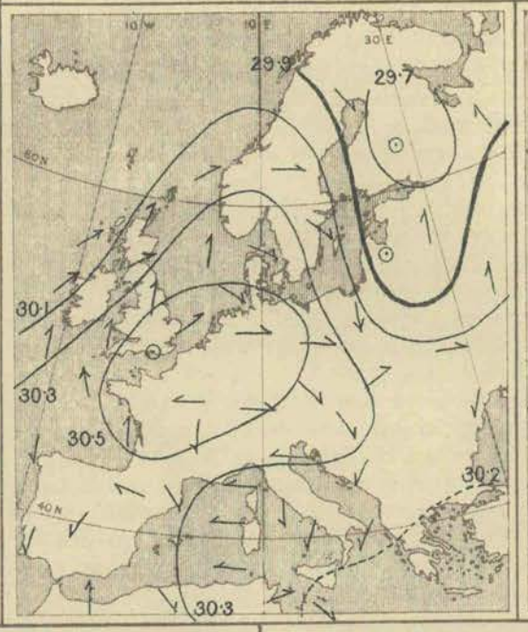
Barometer highest, 30·00 ins. at Madrid; 30·4 ins. and upwards in an anticyclone extending from Algeria and Spain over France, south Germany, and the extreme south-west of our Islands. Lowest, 29·3 ins. and less in a depression off the north-west of Norway. Depression subsequently moving away to the north-eastward, but new disturbance beginning to approach our own western coasts in evening. Anticyclone in meantime spreading northwards over England.

Saturday, 2nd January.

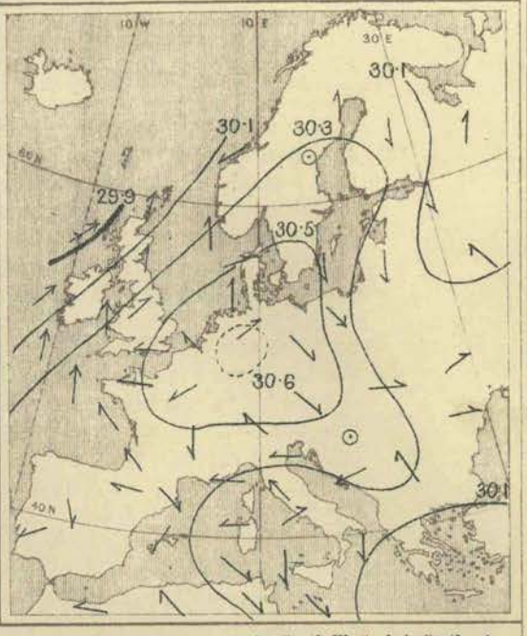
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy over the Netherlands and the central parts of England and France; fine on the east coasts of Great Britain; dull in Ireland, with rain at Roche's Point. Fine at most of the Scandinavian and Danish stations, as well as in Italy and the extreme south of France. Dull in Spain, and also in many parts of Germany and Russia, with snow at Munich and Kuopio. Fog clearing away later over England, and weather becoming for a time fine and bright; rain falling in the west of Ireland.

Temperature risen in Ireland and Scotland, but fallen elsewhere. Morning readings highest, 55° at Malta, 54° at Algiers, and 52° at Cagliari; above 45° at most of the Mediterranean and Adriatic stations, and also in Ireland and the extreme south-west of England. Lowest, (1) 22° at Haparanda and 25° at Moscow; (2) 24° at Cambridge and 25° at Loughborough and Oxford; below the freezing point over the inland parts of England generally. Daily maxima below 40° at many English stations, but thermometer exceeding 45° in the west and north of our Islands, and reaching 50° even so far north as Stornoway and Nairn. Exceeding 50° over southern Europe generally. Frost occurring over England at night.

Wind moderate to fresh from the Southward on our western coasts; South-Westerly in Scotland and the west of Norway, with a moderate gale at Stornoway; light from the Westward over Sweden, Denmark, and Germany. Calm or variable over central England; light from the Eastward over the Channel and the west and south of France, and from the North-Eastward over Spain and Italy. Variable in Austria and the south of Russia. Subsequently increasing to a strong breeze from the Southward on our western coasts; light South-Easterly breezes setting in over central England.

Barometer highest, 30·5 ins. and upwards in an anticyclone lying over Germany, the Netherlands, the greater part of England, and all but the northern parts of France. Lowest, 29·6 ins. and less in a depression over Finland; 30·0 ins. and less in another disturbance off the north-west of Scotland. Anticyclone subsequently moving slowly eastwards; fresh depression appearing off the west of Ireland; barometer falling over western Europe generally. Depression over Finland passing away to the north-eastward.

GENERAL NOTES.

During the greater part of the week barometrical pressure remained highest over southern Europe, and lowest in a series of large cyclonic systems which skirted our extreme northern coasts on their way from the Atlantic to the Scandinavian coasts. Over all the more northern and north-western countries the prevailing winds were therefore Westerly or South-Westerly, the weather being in a very changeable condition, but temperature fairly high for the time of year. On the 28th a well defined secondary system passed in an East-South-Easterly direction across the northern parts of Ireland and England and thence on to western Germany, where it quickly dispersed.

Towards the close of the time the anticyclone in the south spread northwards, and occasioned sharp frosts over England, with thick fog in many places. On the evening of the 2nd, however, the high pressure system was moving away to the eastward, and depressions were again beginning to skirt our extreme north-west coasts, where the wind was increasing in force from the South-Westward.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 314.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	5·7	- 0·8	12	- 1	SOUTHPORT	20·7	?	41	?
OSWALDKIRK (Yorkshire)	15·7	+ 7·4	31	+ 15	MANCHESTER (Oldham Road)	0·0*	?	0*	?
WORKSOP	12·2	+ 4·2	23	+ 8	COLWYN BAY	16·4	?	32	?
THURCASTON (Leicestershire)	14·5	+ 6·6	28	+ 14	NEWQUAY	10·7	- 0·8	19	- 1
MARGATE	15·0	+ 4·5	28	+ 9	TORQUAY	15·7*	+ 3·1	28*	+ 6
WESTBOURNE (Sussex)	13·9*	+ 1·9	26*	+ 5	ARLEY COTTAGE (County Cavan)	10·7	+ 0·9	21	+ 3
BRIGHTON	18·0	+ 6·5	33	+ 12	GUERNSEY	10·5*	- 0·6	18*	- 1
EASTBOURNE	18·3	+ 5·6	34	+ 12					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Nov. 28th, 1896	York	—	—	—	—	—	—	—	—	—	—	—	0·9	- 7·0	9	-14
,, ,, Dec. 5th, ,,	Killarney	54	32	48·3	39·1	43·9	+ 0·1	25	8	4	1·00	?	—	—	—	—
,, ,, ,, ,, ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	9·6	+ 0·6	18	+ 1
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	? 14·3	?	? 27	?
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	15·8	+ 4·5	28	+ 6
,, ,, ,, 12th, ,,	Churchstoke	49	30	45·0	33·9	39·7	+ 0·8	8	32	7	1·87	+0·95	4·4	- 4·1	8	- 9
,, ,, ,, ,, ,,	Laudale	49	34	46·3	39·3	42·9	+ 2·1	18	8	6	1·05	-1·06	—	—	—	—
,, ,, ,, 26th, ,,	Fort Augustus	53	20	41·5	31·5	36·7	- 1·2	0	37	6	1·59	+0 49	2·8	+ 1·0	6	+ 1
,, ,, ,, ,, ,,	Edgeworthstown	53	21	40·5	29·0	35·0	- 2·9	0	49	4	0·70	-0·02	—	—	—	—

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1896.

VOL. XIII. APPENDIX I.] *New Series.* FIRST QUARTER—JANUARY TO MARCH. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE THIRTY-ONE YEARS, 1866 TO 1896.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	12·6	—	9·6	—	5·4	—	5·7	—	6·9	—	8·5	—	7·2	—	12·6	—	11·8	—	13·7	—	11·8	—	11·0	—	12·2	—	—	—	9·7
	Means for 5 years, 1871-75	—	9·1	—	7·8	—	4·9	—	4·4	—	6·6	—	7·1	—	6·2	—	11·1	—	10·4	—	13·7	—	9·5	—	10·5	—	11·0	—	—	—	8·6
	Means for 5 years, 1876-80	—	9·5	—	7·2	—	5·3	—	5·7	—	6·2	—	7·2	—	6·3	—	11·2	—	9·5	—	9·9	—	9·2	—	10·0	—	10·0	—	—	—	8·2
	Means for 5 years, 1881-85	65	9·9	49	6·2	45	5·2	44	5·1	45	6·4	43	6·4	45	5·9	58	12·5	50	8·8	53	9·7	61	9·4	58	11·9	56	10·5	57	8·2	51	8·2
	1886	70	9·5	55	5·9	56	6·3	54	4·9	49	6·5	48	6·3	53	6·0	57	11·2	54	9·0	57	10·8	58	10·0	55	11·2	56	10·4	68	8·9	55	8·2
	1887	60	12·1	43	5·3	38	3·8	33	3·8	35	4·1	34	4·1	36	4·2	47	9·7	38	5·9	38	5·5	47	7·3	49	7·6	41	7·2	42	4·3	39	5·7
	1888	62	10·2	55	6·9	49	5·6	50	5·1	43	4·6	46	5·8	49	5·6	41	8·6	51	5·0	48	7·1	47	7·2	41	7·6	46	7·1	61	7·3	48	6·4
	1889	72	13·8	52	4·8	46	4·8	47	3·9	43	5·6	47	5·1	47	4·8	48	10·6	51	6·0	48	9·1	66	8·6	55	8·6	56	8·6	58	6·7	52	6·7
	1890	67	15·2	54	8·1	48	5·3	52	5·6	46	5·1	46	5·6	49	5·9	60	13·6	56	8·4	53	8·9	62	8·7	58	12·7	58	10·5	54	8·3	54	8·2
	Means for 5 years, 1886-90	66	12·2	52	6·2	47	5·2	47	4·7	43	5·2	44	5·4	47	5·3	53	10·7	50	6·9	49	8·3	56	8·4	50	9·5	52	8·8	57	7·1	50	7·1
	1891	65	14·7	38	5·1	43	3·7	43	3·8	37	4·1	38	5·8	40	4·5	47	9·2	35	4·4	38	6·8	49	5·5	42	5·6	42	6·3	43	6·2	41	5·4
	1892	63	11·2	46	5·5	47	4·4	49	4·0	44	4·0	38	3·7	45	4·3	47	8·0	46	6·3	47	6·4	49	5·9	45	7·6	47	6·8	52	6·9	47	5·6
	1893	65	12·8	51	5·9	44	4·5	49	5·2	48	5·0	48	5·9	48	5·3	57	10·0	49	6·4	49	8·7	59	7·8	50	8·7	53	8·3	56	7·3	52	6·8
	1894	68	21·1	56	11·0	51	5·4	47	4·2	54	5·8	49	6·3	51	6·5	64	18·6	56	9·9	56	10·5	64	12·3	61	10·9	60	12·4	56	7·7	56	9·5
	1895	59	9·8	48	6·4	58	7·5	52	5·6	42	5·4	41	4·7	48	5·9	48	6·7	48	6·7	46	8·1	56	7·7	48	9·5	49	7·7	55	7·3	49	6·8
	Means for 5 years, 1891-95	64	13·9	48	6·8	49	5·1	48	4·6	45	4·9	43	5·3	47	5·3	53	10·5	47	6·7	47	8·1	55	7·8	49	8·5	50	8·3	52	7·1	49	6·8
	1896	68	17·8	50	4·8	39	4·1	47	4·9	45	4·3	42	4·4	45	4·5	61	12·1	53	8·3	50	6·9	56	9·2	51	8·8	54	9·1	53	4·9	50	6·8
	Means for 31 years, 1866-96	—	11·4	—	7·2	—	5·1	—	5·0	—	6·0	—	6·6	—	6·0	—	11·5	—	9·0	—	10·5	—	9·3	—	10·2	—	10·1	—	—	—	8·1
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	38°8		39°1		38°9		39°9		39°9		40°7		39°7		40°1		40°5		43°1		40°6		42°1		41°3		—		40°5	
	Means for 5 years, 1871-75	40°2		40°0		39°7		39°9		40°5		41°2		40°3		40°8		41°6		44°0		41°6		43°7		42°3		—		41°3	
	Means for 5 years, 1876-80	38°6		38°2		39°2		39°4		39°8		40°6		39°4		39°9		40°2		43°2		40°8		43°6		41°5		—		40°5	
	Means for 5 years, 1881-85	38°8		38°9		39°4		39°8		39°9		41°4		39°9		40°2		40°5		42°7		41°3		43°1		41°6		44°9		44°8	
	1886	36°5		36°1		36°2		35°6		36°0		37°2		36°2		37°2		36°9		38°4		38°6		40°0		38°2		42°0		37°2	
	1887	39°4		39°2		38°7		37°5		37°8		38°7		38°4		39°8		39°0		40°4		41°3		42°3		40°6		42°7		39°5	
	1888	36°2		36°3		37°3		36°5		36°8		37°4		36°9		38°1		37°7		38°5		39°4		40°5		38°8		41°6		37°9	
	1889	38°5		38°6		38°6		37°5		38°2		39°0		38°4		40°1		39°7		40°8		41°3		42°9		41°0		44°1		39°7	
	1890	40°0		39°8		40°7		40°1		40°4		41°6		40°5		41°3		41°2		42°7		42°0		43°5		42°1		45°7		41°3	
	Means for 5 years, 1886-90	38°1		38°0		38°3		37°4		37°8		38°8		38°1		39°3		38°9		40°2		40°5		41°8		40°1		43°2		39°1	
	1891	38°4		38°0		37°9		37°4		38°0		38°4		37°9		39°6		39°5		40°2		40°8		42°3		40°5		43°1		39°2	
	1892	36°3		36°1		36°9		36°3		36°6		38°3		36°8		37°9		37°9		39°7		39°2		40°3		39°0		43°0		37°9	
	1893	38°8		38°8		40°2		39°8		40°3		41°3		40°1		40°7		41°2		42°8		42°2		43°8		42°1		43°0		41°1	
	1894	39°2		38°8		39°8		40°0		40°4		41°8		40°2		41°0		42°0		42°7		41°8		43°6		42°2		45°5		41°2	
	1895	34°3		32°5		34°9		34°4		33°6		35°3		34°1		34°8		35°0		36°4		36°5		38°4		33°2		39°9		35°2	
	Means for 5 years, 1891-95	37°4		36°8		37°9		37°6		37°8		39°0		37°8		38°8		39°1		40°4		40°1		41°7		40°0		43°5		38°9	
	1896	40°9		40°4		41°2		40°9		41°4		42°7		41°3		42°3		42°5		43°9		43°4		45°5		43°5		46°7		42°4	
	Means for 31 years, 1866-96	38°7		38°6		39°0		39°1		39°3		40°4		39°3		40°0		40°1		42°3		40°9		42°8		41°2		—		40°3	

TABLE Ia—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-ONE YEARS, 1866 TO 1896.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·2 in 1880 and 1887	Ins. 6·3 in 1891	Ins. 5·4 in 1891
	Wettest	9·0 in 1872	14·9 in 1872	12·0 in 1872
Temperature	Coldest	34°1 in 1895	36°2 in 1895	35°2 in 1895
	Warmest	42°8 in 1882	44°6 in 1882	43°7 in 1882

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FIRST QUARTER, 1896.

YEAR AND MONTHS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.
Rainfall.—Numbers of Days with Rain.																												
January	22	22	16	16	14	14	15	15	13	13	12	12	14	14	17	17	13	13	14	14	17	17	14	14	15	15	17	17	15	15
February	16	38	11	27	7	21	8	23	8	21	7	19	8	22	16	33	13	26	9	23	10	27	10	24	12	27	8	25	10	25
March	30	68	23	50	18	39	24	47	24	45	23	42	22	44	28	61	27	53	27	50	29	56	27	51	28	55	28	53	25	50
Rainfall.—Amounts in Inches.																												
January	5·23	5·23	1·46	1·46	1·23	1·28	1·44	1·44	1·06	1·06	1·03	1·03	1·25	1·25	2·69	2·69	2·01	2·01	1·70	1·70	2·36	2·36	1·71	1·71	2·09	2·09	1·37	1·37	1·67	1·67
February	4·49	9·72	1·00	2·46	0·47	1·75	0·41	1·85	0·53	1·59	0·45	1·48	0·57	1·82	2·63	5·32	1·05	3·06	0·84	2·54	1·16	3·52	1·71	3·42	1·48	3·57	0·71	2·08	1·03	2·70
March	8·09	17·81	2·35	4·81	2·39	4·05	3·05	4·90	2·74	4·33	2·87	4·35	2·66	4·48	6·75	12·07	5·20	8·26	4·39	6·93	5·64	9·16	5·33	8·75	5·46	9·03	2·84	4·92	4·06	6·76
Accumulated Heat.—Day Degrees above 42° F.																												
January	27	27	22	22	35	35	41	41	59	59	59	59	43	43	55	55	61	61	89	89	79	79	113	113	79	79	125	125	61	61
February	83	110	83	105	55	90	43	89	59	118	58	117	61	104	82	137	75	136	85	174	100	179	127	240	94	173	114	239	78	139
March	53	163	76	181	101	191	142	231	147	265	156	273	124	228	84	221	112	248	150	324	130	309	177	417	131	304	230	469	128	267
Accumulated Heat.—Day Degrees below 42° F.																												
January	106	106	134	134	98	98	112	112	98	98	69	69	102	102	76	76	65	65	46	46	57	57	40	40	57	57	17	17	80	80
February	33	139	75	209	83	181	115	227	107	205	87	156	93	195	32	108	49	114	55	101	33	90	25	65	39	96	11	28	66	146
March	125	264	156	365	110	291	94	321	100	305	57	213	103	298	98	206	73	187	41	142	60	150	22	87	59	155	11	39	81	227
Bright Sunshine.—Numbers of Hours.																												
January	16	16	31	31	27	27	28	28	24	24	24	24	27	27	25	25	19	19	33	33	28	28	32	32	27	27	31	31	27	27
February	24	40	57	88	41	68	64	92	57	81	59	83	56	83	25	50	31	50	65	98	48	76	60	92	46	73	91	122	51	78
March	94	134	116	204	114	182	112	204	107	188	119	202	114	197	105	155	84	134	108	206	92	168	98	190	97	170	134	256	106	184
Bright Sunshine.—Percentages of possible Duration.																												
January	8	8	16	8	12	7	13	7	10	6	10	7	12	7	12	9	9	9	14	10	13	8	14	10	12	9	13	11	12	8
February	10	9	23	20	16	16	25	17	22	16	23	15	22	17	10	12	12	14	25	19	18	15	23	17	18	15	34	20	20	16
March	24	13	29	22	28	18	28	22	27	19	29	20	28	20	26	14	21	16	27	21	23	17	24	20	24	18	34	27	26	19

1896.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-95. The whole of the values for 1878-96, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *January* are those for the first four weeks in the year; those for *February* are for the fifth to the eighth weeks; those for *March* are for the ninth to the thirteenth weeks.

The figures given in the columns headed "From Dec. 29/95" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1896.

VOL. XIII. APPENDIX I.] *New Series.* SECOND QUARTER—APRIL TO JUNE. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE THIRTY-ONE YEARS, 1866 TO 1896.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	8·8	—	5·7	—	5·5	—	4·5	—	5·3	—	5·1	—	5·2	—	7·1	—	6·5	—	7·0	—	7·5	—	7·2	—	7·1	—	—	—	6·2
	Means for 5 years, 1871-75	—	8·5	—	6·5	—	5·5	—	5·5	—	6·4	—	6·4	—	6·1	—	7·3	—	7·4	—	7·9	—	7·5	—	6·2	—	7·3	—	—	—	6·7
	Means for 5 years, 1876-80	—	6·3	—	6·9	—	7·1	—	7·2	—	7·7	—	7·1	—	7·2	—	8·5	—	7·8	—	9·0	—	8·3	—	9·8	—	8·7	—	—	—	8·0
	Means for 5 years, 1881-85	51	6·7	44	5·2	43	5·8	39	5·9	41	6·5	38	5·6	41	5·8	47	8·1	42	7·0	44	7·2	52	7·2	46	7·7	46	7·4	45	5·6	44	6·6
	1886	59	6·7	46	6·4	46	6·1	43	5·2	50	9·4	45	6·4	46	6·7	48	8·8	49	9·4	46	7·3	50	7·9	50	8·2	49	8·3	50	6·2	48	7·5
	1887	45	6·2	32	3·7	33	3·0	35	3·6	31	4·0	31	3·8	32	3·6	34	5·8	27	3·8	29	3·5	29	4·5	26	3·3	29	4·2	35	3·8	31	3·9
	1888	56	8·5	44	7·1	43	5·1	43	5·1	41	6·0	42	6·2	43	5·9	49	11·4	43	6·4	46	7·5	50	9·8	49	10·1	47	9·0	50	6·6	45	7·3
	1889	50	4·9	42	5·8	39	5·0	43	7·3	41	8·1	41	5·7	41	6·4	44	7·7	40	6·8	40	5·9	45	7·2	46	7·6	43	7·0	39	5·3	42	6·7
	1890	58	8·5	52	5·6	41	4·7	41	4·5	40	4·7	42	6·3	43	5·2	50	10·1	45	6·0	51	8·1	54	6·3	58	8·5	52	7·8	55	7·7	48	6·5
	Means for 5 years, 1886-90	54	7·0	43	5·7	40	4·8	41	5·1	41	6·4	40	5·7	41	5·5	45	8·8	41	6·5	42	6·5	46	7·1	46	7·5	44	7·8	46	5·9	43	6·4
	1891	45	6·3	36	4·4	35	4·3	41	5·5	43	6·7	38	4·8	39	5·1	36	5·0	39	5·9	42	7·2	46	6·1	45	8·4	42	6·5	41	6·2	41	5·8
	1892	59	9·1	51	6·4	51	7·3	42	6·1	38	5·5	31	3·7	43	5·8	49	10·0	50	8·3	37	4·6	56	9·6	46	8·0	47	8·1	37	4·8	45	7·0
	1893	41	5·2	36	5·1	28	3·2	22	2·3	23	3·1	20	1·7	26	3·1	30	5·4	27	4·2	21	3·0	33	4·9	30	4·8	28	4·5	17	2·1	27	3·8
	1894	47	6·1	49	6·6	54	7·2	48	7·1	45	5·9	44	5·8	48	6·5	53	8·3	55	7·0	51	7·5	56	8·0	53	9·7	54	8·1	53	6·7	51	7·3
	1895	49	8·9	38	4·9	32	4·1	27	2·9	28	4·1	26	2·9	30	3·8	40	4·7	30	4·4	26	4·3	42	4·3	33	4·6	34	4·5	31	3·6	32	4·2
	Means for 5 years, 1891-95	48	7·1	42	5·5	40	5·2	36	4·8	35	5·1	32	3·8	37	4·9	42	6·7	40	6·0	35	5·3	46	6·6	41	7·1	41	6·3	36	4·7	39	5·6
	1896	54	9·0	42	5·0	37	3·2	33	3·8	30	3·8	28	3·0	34	3·8	37	6·3	35	4·4	24	2·8	44	6·1	34	3·8	35	4·7	29	2·8	35	4·3
	Means for 31 years, 1866-96	—	7·4	—	5·9	—	5·6	—	5·5	—	6·2	—	5·5	—	5·7	—	7·7	—	6·8	—	7·0	—	7·3	—	7·5	—	7·3	—	—	—	6·5
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	48°5		50°4		49°8		52°7		53°1		53°1		51°8		51°3		51°8		53°9		52°5		53°0		52°5		—		52°2	
	Means for 5 years, 1871-75	48°2		49°8		49°6		51°0		52°0		52°1		50°9		51°1		51°3		53°0		51°6		53°3		52°1		—		51°5	
	Means for 5 years, 1876-80	47°2		48°9		49°4		51°1		51°3		51°9		50°5		50°2		50°5		52°0		50°1		52°0		51°0		—		50°8	
	Means for 5 years, 1881-85	46°8		49°5		50°0		51°8		51°8		52°9		51°2		50°0		50°8		51°6		50°6		51°6		50°9		52°7		51°1	
	1886	45°6		47°8		47°9		50°5		50°5		52°0		49°7		48°1		49°4		51°2		48°9		50°8		49°7		52°1		49°7	
	1887	48°4		50°5		50°3		51°4		52°0		52°4		51°3		51°0		51°2		52°6		52°2		53°3		52°1		53°2		51°7	
	1888	46°5		47°6		48°4		50°5		50°5		51°1		49°6		49°4		49°9		50°8		50°0		51°8		50°4		51°9		50°0	
	1889	49°7		50°9		51°3		53°1		53°4		54°7		52°7		51°9		52°6		53°0		51°7		52°4		52°3		54°0		52°5	
	1890	48°0		49°2		49°8		51°4		51°2		52°6		50°8		50°2		51°0		52°0		50°9		51°1		51°2		52°9		51°0	
	Means for 5 years, 1886-90	47°6		49°2		49°5		51°4		51°5		52°6		50°8		50°1		50°8		51°9		50°7		52°1		51°1		52°8		51°0	
	1891	47°5		48°2		48°8		50°7		50°8		52°3		50°2		50°1		50°5		51°5		50°5		51°7		50°9		53°0		50°6	
	1892	46°8		48°2		49°6		51°6		51°6		52°5		50°7		49°6		50°8		51°8		50°6		52°2		51°0		53°6		50°9	
	1893	51°0		52°0		52°0		54°2		55°3		56°3		54°0		53°6		54°9		56°5		54°8		56°1		55°2		57°6		54°6	
	1894	48°4		48°3		49°3		51°5		51°4		53°2		50°7		50°0		51°2		52°1		50°5		52°2		51°2		53°8		51°0	
	1895	49°2		50°3		50°8		52°3		53°0		53°5		52°0		51°6		52°2		53°2		52°0		53°1		52°4		54°0		52°2	
	Means for 5 years, 1891-95	48°6		49°4		50°1		52°1		52°4		53°6		51°5		51°0		51°9		53°0		51°7		53°1		52°1		54°4		51°8	
	1896	49°8		51°7		51°8		52°6		53°4		54°2		52°7		52°5		53°5		54°4		53°1		54°4		53°6		55°4		53°2	
	Means for 31 years, 1866-96	47°9		49°6		49°8		51°7		52°1		52°7		51°2		50°7		51°3		52°6		51°3		52°6		51°7		—		51°5	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-ONE YEARS, 1866 TO 1896.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·1 in 1870 and 1893	Ins. 4·2 in 1887	Ins. 3·8 in 1893
	Wettest	9·4 in 1879	10·3 in 1872 and 1878 10·2 in 1879 and 1882	9·8 in 1879
Temperature	Coldest	48°4 in 1879	49°1 in 1879 and 1885	48°8 in 1879
	Warmest	54·0 in 1868 and 1893	55·2 in 1893	54·6 in 1893

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE SECOND QUARTER, 1896.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.										Means for Wheat-producing Districts.		Principal Grazing, &c. Districts.										Means for the Grazing, &c. Districts.		Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.				6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.							
	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
April	21	89	13	63	12	51	14	61	12	57	11	53	12	56	12	73	12	65	10	60	15	71	12	63	12	67	10	63	12	62
May	15	104	10	73	10	61	10	71	6	63	7	60	9	65	9	82	8	73	3	63	11	82	8	71	8	75	7	70	9	71
June	18	122	19	92	15	76	9	80	12	75	10	70	13	78	16	98	15	88	11	74	18	100	14	85	15	90	12	82	14	85
RAINFALL.—AMOUNTS IN INCHES.																														
April	3·20	21·01	0·93	5·74	0·60	4·65	1·16	6·06	0·82	5·16	0·57	4·92	0·82	5·30	1·75	13·82	1·13	9·39	0·78	7·71	1·53	10·69	0·96	9·71	1·23	10·26	0·52	5·44	1·03	7·79
May	2·36	23·37	1·17	6·91	0·88	5·53	0·70	6·76	0·46	5·61	0·37	5·29	0·72	6·02	1·26	15·08	1·04	10·43	0·13	7·84	1·31	11·93	0·45	10·16	0·84	11·10	0·37	5·81	0·78	8·57
June	3·43	26·80	2·90	9·81	1·75	7·28	1·96	8·72	2·48	8·09	2·04	7·33	2·23	8·24	3·33	18·41	2·21	12·64	1·84	9·68	3·22	15·21	2·42	12·58	2·60	13·70	1·86	7·67	2·42	10·99
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
April	117	280	180	361	166	357	161	392	182	447	181	454	174	402	163	387	162	410	191	515	178	487	206	623	181	485	223	692	178	445
May	222	502	263	624	225	582	255	647	290	737	304	758	267	669	281	668	283	698	321	836	292	779	314	937	299	784	348	1040	283	728
June	391	893	463	1087	507	1089	581	1228	589	1326	620	1378	552	1221	507	1175	574	1272	594	1430	516	1295	567	1504	552	1336	618	1658	552	1280
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
April	32	296	35	400	34	325	56	377	52	357	24	237	40	338	24	230	14	201	13	155	7	157	1	88	12	167	0	39	26	253
May	9	305	8	408	2	327	11	388	15	372	0	237	7	345	4	234	0	201	0	155	5	162	1	89	2	169	0	39	5	258
June	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
April	90	224	143	347	140	322	131	335	127	315	117	319	132	329	138	293	143	277	150	356	93	263	111	301	127	297	167	423	130	314
May	175	399	186	533	176	498	193	528	199	514	211	530	193	522	212	505	209	486	264	620	194	457	214	515	219	516	270	693	206	520
June	171	570	194	727	207	705	282	810	240	754	297	827	244	766	262	767	246	732	310	930	234	691	271	786	265	781	336	1029	255	775
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
April	23	17	37	27	37	24	34	25	33	23	30	24	34	25	37	22	38	23	40	26	25	20	29	22	34	23	45	31	34	24
May	40	22	43	31	41	29	46	30	47	29	50	29	45	30	49	28	49	30	63	34	45	26	51	29	51	29	65	38	48	30
June	28	25	32	32	35	30	50	35	42	32	53	35	42	33	45	33	42	34	55	39	40	30	47	34	46	34	60	43	44	34

1896.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-95. The whole of the values for 1878-96, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *April* are those for the fourteenth to the seventeenth weeks in the year; those for *May* are for the eighteenth to the twenty-first weeks; those for *June* are for the twenty-second to the twenty-sixth weeks.

The figures given in the columns headed "From Dec. 29/95" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1896.

VOL. XIII. APPENDIX I.] *New Series.* THIRD QUARTER—JULY TO SEPTEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE THIRTY-ONE YEARS, 1866 TO 1896.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	10·6	—	8·8	—	6·3	—	6·1	—	7·4	—	7·3	—	7·2	—	10·9	—	9·9	—	10·1	—	9·8	—	8·6	—	9·8	—	—	—	8·6
	Means for 5 years, 1871-75	—	13·1	—	10·7	—	8·4	—	7·5	—	9·1	—	8·0	—	8·7	—	13·2	—	12·9	—	14·1	—	12·2	—	10·8	—	12·6	—	—	—	10·7
	Means for 5 years, 1876-80	—	9·0	—	8·9	—	9·2	—	9·0	—	10·1	—	8·7	—	9·2	—	11·7	—	12·3	—	11·6	—	11·1	—	10·7	—	11·5	—	—	—	10·4
	Means for 5 years, 1881-85	56	7·8	51	7·9	46	7·3	45	7·4	45	7·5	44	6·6	46	7·3	53	11·8	49	9·8	52	10·0	60	10·3	53	10·2	53	10·4	54	7·6	50	8·9
	1886	59	8·7	43	5·0	41	6·8	38	6·5	39	6·4	35	5·8	39	6·1	48	11·4	42	10·3	40	9·3	54	9·3	53	10·9	47	10·2	48	7·2	43	8·2
	1887	63	10·3	53	7·6	44	6·1	42	5·4	35	5·2	35	5·8	42	6·0	49	10·8	43	7·1	37	7·3	55	10·5	46	7·9	46	8·7	40	6·2	44	7·4
	1888	55	9·3	52	7·1	49	9·2	53	8·4	48	7·9	46	7·9	50	8·1	53	9·7	50	9·6	53	9·8	54	9·5	44	8·4	51	9·4	51	7·8	51	8·8
	1889	58	11·0	51	8·8	48	7·7	48	9·1	44	7·8	41	6·6	46	8·0	51	10·8	48	10·2	50	9·1	60	11·9	50	9·8	52	10·4	47	6·0	49	9·2
	1890	65	12·1	54	8·4	48	8·3	44	7·2	47	6·6	44	8·6	47	7·8	44	12·0	53	9·2	52	9·8	65	10·2	55	8·4	56	9·9	44	8·1	52	8·9
	Means for 5 years, 1886-90	60	10·3	51	7·4	46	7·6	45	7·3	43	6·8	40	6·9	45	7·2	51	10·9	47	9·3	46	9·1	58	10·3	50	9·1	50	9·7	46	7·1	48	8·5
	1891	71	15·9	59	11·7	51	8·8	51	8·5	52	7·9	52	9·0	53	9·2	62	14·9	55	13·8	56	12·9	66	11·3	56	11·0	59	12·8	51	9·7	56	11·0
	1892	66	15·0	51	8·3	44	6·6	40	8·2	46	7·5	44	8·4	45	7·8	53	15·5	53	12·1	51	10·0	62	12·0	53	13·2	54	12·5	43	7·2	50	10·2
	1893	70	15·7	55	8·1	49	6·8	45	5·9	43	6·0	43	7·0	47	6·8	53	11·3	54	10·4	47	9·9	60	11·2	52	8·7	53	10·3	51	9·8	50	8·6
	1894	53	10·5	48	8·9	49	6·2	54	7·6	41	6·8	51	9·2	49	7·7	40	7·3	44	8·0	52	10·7	54	6·8	45	8·8	47	8·3	54	11·9	48	8·0
	1895	63	14·0	51	9·6	44	7·9	34	8·3	40	6·6	37	6·8	41	7·8	54	12·7	46	9·3	40	8·3	57	10·9	49	10·1	49	10·3	39	5·7	45	9·1
	Means for 5 years, 1891-95	65	14·2	53	9·3	47	7·3	45	7·7	45	7·0	45	8·1	47	7·9	52	12·3	50	10·7	49	10·4	60	10·4	51	10·4	52	10·8	48	8·9	50	9·4
	1896	59	13·5	59	9·3	52	6·9	49	8·2	51	8·3	46	9·1	51	8·4	60	13·9	55	11·3	49	10·0	64	13·5	56	12·7	57	12·3	50	9·6	54	10·4
	Means for 31 years, 1866-96	—	10·9	—	8·8	—	7·7	—	7·5	—	8·0	—	7·6	—	7·9	—	11·9	—	10·8	—	10·8	—	10·8	—	10·1	—	10·9	—	—	—	9·4
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	54°·4		57°·1		57°·0		59°·7		59°·7		60°·1		58°·7		57°·9		59°·0		61°·0		58°·5		59°·5		59°·2		—		59°·0	
	Means for 5 years, 1871-75	54·5		56·7		57·5		59·7		59·6		60·0		58·7		57·7		58·5		60·4		57·2		58·8		58·5		—		58·6	
	Means for 5 years, 1876-80	54·1		56·4		57·6		59·6		59·3		60·3		58·6		57·2		58·1		59·9		56·8		59·0		58·2		—		58·4	
	Means for 5 years, 1881-85	53·1		56·3		57·3		59·0		58·2		59·9		58·1		55·9		57·2		58·1		56·2		57·2		56·9		59·8		57·6	
	1886	52·4		56·1		58·1		60·2		59·7		61·3		59·1		55·8		57·7		59·4		56·5		58·2		57·5		61·0		58·3	
	1887	52·9		55·8		57·1		59·1		58·2		59·7		58·0		55·6		57·5		58·7		56·5		58·4		57·3		61·2		57·7	
	1888	51·7		53·2		54·4		57·1		55·8		58·0		55·7		54·2		55·4		56·7		55·0		56·2		55·5		58·9		55·6	
	1889	53·2		54·7		56·4		58·1		57·5		59·4		57·2		55·5		56·9		58·0		56·1		57·5		56·8		60·3		57·0	
	1890	53·8		55·7		57·7		58·8		58·1		59·8		58·0		56·1		57·5		58·1		56·5		57·6		57·2		59·2		57·6	
	Means for 5 years, 1886-90	52·8		55·1		56·7		58·7		57·9		59·6		57·6		55·4		57·0		58·2		56·1		57·6		56·9		60·1		57·3	
	1891	54·0		55·7		57·0		58·4		57·5		59·2		57·6		56·1		57·4		57·4		56·6		57·3		57·0		59·8		57·3	
	1892	52·1		53·5		55·4		57·6		56·5		59·2		56·4		54·4		56·2		57·6		55·1		57·0		56·1		60·6		56·3	
	1893	55·0		56·3		58·4		60·5		60·2		61·7		59·4		57·3		59·9		60·4		58·1		59·5		59·0		62·7		59·2	
	1894	54·5		55·1		56·5		58·0		57·2		59·3		57·2		55·5		57·2		57·6		55·9		56·7		56·6		60·1		56·9	
	1895	55·4		56·9		59·4		60·8		60·0		61·7		59·8		57·2		59·3		59·8		57·5		58·3		58·4		62·4		59·1	
	Means for 5 years, 1891-95	54·2		55·5		57·3		59·1		58·3		60·2		58·1		56·1		58·0		58·6		56·6		57·8		57·4		61·1		57·8	
	1896	53·8		55·1		57·6		59·4		58·3		60·9		58·3		56·1		58·1		59·4		56·1		58·1		57·6		61·8		58·0	
	Means for 31 years, 1866-96	53·8		56·1		57·3		59·3		58·8		60·1		58·3		56·7		58·0		59·4		56·9		58·3		57·9		—		58·1	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-ONE YEARS, 1866 TO 1896.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·9 in 1870	Ins. 6·4 in 1870	Ins. 5·7 in 1870
	Wettest	10·6 in 1879	14·2 in 1872	12·4 in 1879
Temperature	Coldest	55°·7 in 1888	55°·5 in 1888	55°·6 in 1888
	Warmest	60°·9 in 1868	60°·8 in 1868	60°·9 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE THIRD QUARTER, 1896.

YEAR AND MONTHS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.															
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &c. DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.	For the Month.	From Dec.29/95.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
July - -	19	141	17	109	11	87	9	89	11	86	8	78	11	89	19	117	18	101	10	84	20	120	15	100	15	105	10	92	13	98
August -	15	156	14	123	16	103	15	104	11	97	11	89	13	102	15	132	14	115	11	95	15	135	12	112	13	118	13	105	13	111
September -	25	181	28	151	25	128	25	129	29	126	27	116	27	129	26	158	28	143	28	123	29	164	29	141	28	146	27	132	28	139
RAINFALL.—AMOUNTS IN INCHES.																														
July - -	3·65	30·45	3·44	13·25	1·63	8·91	0·99	9·71	1·29	9·38	0·76	8·09	1·62	9·86	4·66	23·07	3·49	16·13	1·84	11·52	5·18	20·39	4·21	16·79	3·88	17·58	1·08	8·75	2·75	13·74
August -	2·05	32·50	1·31	14·56	2·00	10·91	1·84	11·55	1·31	10·69	1·80	9·89	1·65	11·51	2·36	25·43	1·26	17·39	1·18	12·70	2·00	22·39	1·49	18·28	1·66	19·24	1·90	10·65	1·66	15·40
September -	7·77	40·27	4·51	19·07	3·30	14·21	5·36	16·91	5·70	16·39	6·57	16·46	5·09	16·60	6·89	32·32	6·57	23 96	6·96	19·66	6·29	28·68	7·00	25·28	6·74	25·98	6·65	17·30	5·92	21·32
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
July - -	352	1245	415	1502	497	1586	558	1786	528	1854	594	1972	518	1739	417	1592	496	1768	547	1977	424	1719	489	1993	475	1811	594	2252	497	1777
August -	326	1571	365	1867	417	2003	460	2246	438	2292	511	2483	438	2177	390	1982	443	2211	473	2450	392	2111	453	2446	430	2241	545	2797	434	2211
September -	365	1936	378	2245	465	2468	523	2769	474	2766	576	3059	483	2660	439	2421	489	2700	529	2979	436	2547	492	2938	477	2718	630	3427	480	2691
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
July - -	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
August -	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
September -	1	306	3	411	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
July - -	91	661	143	870	168	873	210	1020	173	927	226	1053	184	950	117	884	166	898	220	1150	101	792	137	923	148	929	249	1278	166	941
August -	99	760	123	993	98	971	142	1162	124	1051	170	1223	131	1081	170	1054	122	1020	191	1341	124	916	147	1070	151	1080	225	1503	141	1082
September -	111	871	104	1097	88	1059	113	1275	85	1136	130	1353	104	1185	109	1163	77	1097	137	1478	108	1024	132	1202	113	1193	167	1670	109	1191
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
July - -	19	25	30	32	36	32	46	37	38	34	51	38	40	35	26	33	37	35	49	42	22	30	30	35	33	35	57	47	37	35
August -	23	24	29	31	23	31	35	37	30	34	41	39	32	34	40	33	29	35	46	43	29	29	35	35	33	35	55	48	34	35
September -	24	24	23	30	20	30	25	36	19	33	29	38	23	33	24	32	17	34	31	42	24	28	30	34	25	34	37	48	24	34

1896.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884–95. The whole of the values for 1878–96, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *July* are those for the twenty-seventh to the thirtieth weeks in the year; those for *August* are for the thirty-first to the thirty-fourth weeks; those for *September* are for the thirty-fifth to the thirty-ninth weeks.

The figures given in the columns headed "From Dec. 29/95" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1896.

VOL. XIII. APPENDIX I.] *New Series.* FOURTH QUARTER—OCTOBER TO DECEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE THIRTY-ONE YEARS, 1866 TO 1896.

	YEARS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	18·4	—	8·8	—	7·7	—	7·4	—	7·6	—	8·3	—	8·0	—	12·9	—	14·7	—	14·6	—	12·6	—	10·5	—	13·1	—	—	—	10·6
	Means for 5 years, 1871-75	—	17·2	—	10·4	—	7·7	—	7·2	—	7·9	—	9·9	—	8·6	—	13·1	—	13·3	—	16·3	—	11·1	—	12·1	—	13·2	—	—	—	10·9
	Means for 5 years, 1876-80	—	13·8	—	9·1	—	8·1	—	7·2	—	8·1	—	9·5	—	8·4	—	12·8	—	12·0	—	14·1	—	11·0	—	11·3	—	12·2	—	—	—	10·3
	Means for 5 years, 1881-85	68	12·7	54	7·2	55	7·3	59	8·8	55	8·6	52	8·9	55	8·2	58	15·8	56	11·0	62	13·7	64	11·8	61	11·8	60	12·8	67	12·4	58	10·5
	1886	75	14·3	60	7·8	56	10·0	58	9·5	64	10·9	67	14·4	61	10·5	65	16·8	69	14·3	75	19·1	71	15·5	69	16·0	70	16·3	85	16·3	66	13·4
	1887	73	13·0	55	7·8	59	7·7	56	6·3	47	5·9	50	7·8	53	7·1	51	12·4	55	8·1	55	12·0	57	10·0	47	9·7	53	10·4	64	11·9	53	8·8
	1888	69	15·9	57	9·3	46	5·7	42	5·6	43	8·4	50	8·6	48	7·5	57	16·8	56	10·1	61	14·0	60	10·4	63	13·8	61	13·0	66	10·2	55	10·3
	1889	65	12·3	52	6·6	49	6·6	51	6·0	47	5·3	46	8·2	49	6·5	58	13·3	58	9·4	59	11·8	61	10·8	59	11·6	58	11·4	66	12·2	54	9·0
	1890	74	19·3	62	10·8	56	6·7	46	5·4	49	5·6	48	4·9	52	6·7	60	17·1	56	11·4	62	11·3	65	13·6	58	11·8	60	13·0	63	8·9	56	9·9
	Means for 5 years, 1886-90	71	15·0	57	8·5	53	7·3	51	6·6	50	7·2	52	8·8	53	7·7	58	15·3	59	10·7	62	13·6	64	12·1	59	12·6	60	12·9	69	11·9	57	10·3
	1891	61	15·9	51	9·7	52	7·8	62	9·0	60	11·4	62	13·6	57	10·3	60	20·8	58	14·2	64	18·2	64	12·4	61	16·5	61	16·4	66	14·6	59	13·4
	1892	65	14·5	53	8·0	55	7·3	49	8·9	48	6·1	47	8·6	50	7·8	57	13·0	56	10·5	57	10·1	68	10·5	59	11·3	59	11·1	63	10·3	55	9·5
	1893	76	24·2	57	8·2	52	5·9	55	7·7	50	6·7	51	8·9	53	7·5	65	16·4	61	10·4	56	12·1	65	10·1	57	10·4	61	11·9	61	9·2	57	9·7
	1894	66	15·8	48	7·4	54	7·0	56	7·7	53	8·9	52	10·8	53	8·4	62	15·3	58	11·4	55	16·2	60	10·9	53	14·1	58	13·6	58	12·3	56	11·0
	1895	66	16·6	58	10·6	55	8·2	52	7·4	53	8·6	56	10·5	55	9·1	53	14·2	59	11·9	65	16·6	63	12·7	62	13·8	60	13·8	74	15·3	58	11·5
	Means for 5 years, 1891-95	67	17·4	53	8·8	54	7·2	55	8·1	53	8·3	54	10·5	54	8·6	59	15·9	58	11·7	59	14·6	64	11·3	58	13·2	60	13·3	64	12·3	57	11·0
	1896	71	15·9	62	10·4	68	11·1	61	8·0	58	8·2	57	9·3	61	9·4	58	13·1	57	11·2	63	14·0	62	10·4	58	11·5	60	12·0	76	12·9	61	10·7
	Means for 31 years, 1866-96	—	15·8	—	8·9	—	7·7	—	7·6	—	8·0	—	9·3	—	8·3	—	14·3	—	12·2	—	14·5	—	11·6	—	11·9	—	12·9	—	—	—	10·6
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	42°·1		42°·1		42°·5		43°·6		43°·4		44°·2		43°·2		43°·2		43°·8		47°·0		44°·0		45°·2		44°·6		—		43°·9	
	Means for 5 years, 1871-75	42·4		41·8		42·7		42·9		42·8		43·6		42·8		42·7		43·6		46·3		43·3		45·4		44·3		—		43·6	
	Means for 5 years, 1876-80	41·7		41·6		42·3		42·9		42·4		44·2		42·7		42·9		43·7		47·1		43·6		45·6		44·6		—		43·7	
	Means for 5 years, 1881-85	42·6		42·0		43·4		43·4		43·0		45·1		43·4		43·5		44·1		46·5		43·9		45·6		44·7		49·1		44·1	
	1886	42·6		42·5		43·6		43·9		43·5		45·6		43·8		44·4		44·7		46·3		44·2		45·8		45·1		49·8		44·5	
	1887	39·2		39·4		40·3		40·2		39·9		41·7		40·3		40·7		41·3		42·7		41·8		42·8		41·9		46·5		41·1	
	1888	43·2		43·4		44·1		43·9		43·8		46·1		44·3		45·1		45·3		47·1		45·5		47·0		46·0		50·6		45·2	
	1889	43·1		42·2		43·1		43·0		42·7		44·9		43·2		44·4		44·1		45·8		45·0		46·2		45·1		49·1		44·2	
	1890	42·3		41·5		42·1		40·5		40·4		42·2		41·3		43·3		42·6		44·0		44·3		45·6		44·0		47·5		42·7	
	Means for 5 years, 1886-90	42·1		41·8		42·6		42·3		42·1		44·1		42·6		43·6		43·6		45·2		44·2		45·5		44·4		48·7		43·5	
	1891	42·0		40·8		42·3		43·6		42·5		45·6		43·0		43·4		43·7		45·9		43·3		44·8		44·2		49·4		43·6	
	1892	40·2		39·1		40·9		41·5		40·5		43·5		41·1		41·5		42·1		44·5		42·9		44·6		43·1		48·2		42·1	
	1893	41·9		42·0		44·0		43·9		43·4		45·3		43·7		44·1		45·3		46·0		44·0		45·5		45·0		49·4		44·4	
	1894	44·0		42·7		44·7		45·5		45·2		47·4		45·1		45·6		46·7		48·0		45·6		47·3		46·6		51·2		45·9	
	1895	41·2		40·5		43·0		43·8		42·9		46·0		43·2		43·0		44·2		46·6		43·0		45·3		44·4		51·0		43·8	
	Means for 5 years, 1891-95	41·9		41·0		43·0		43·7		42·9		45·6		43·2		43·5		44·4		46·2		43·8		45·5		44·7		49·8		44·0	
	1896	41·2		40·5		41·9		41·8		40·9		43·5		41·7		42·1		42·5		43·3		42·2		43·3		42·7		47·5		42·2	
	Means for 31 years, 1866-96	42·1		41·7		42·7		43·1		42·7		44·4		42·9		43·2		43·8		46·3		43·7		45·4		44·5		—		43·7	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-ONE YEARS, 1866 TO 1896.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·4 in 1879	Ins. 5·0 in 1879	Ins. 4·2 in 1879
	Wettest	13·1 in 1872	18·6 in 1872	15·9 in 1872
Temperature	Coldest	40°·3 in 1887	41°·9 in 1887	41°·1 in 1887
	Warmest	45·6 in 1866	47·0 in 1866	46·3 in 1866

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FOURTH QUARTER, 1896.

YEAR AND MONTHS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.																Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.									
	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.					For the Month.	From Dec. 29/95.	For the Month.	From Dec. 29/95.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																																
October	21	202	18	169	22	150	21	150	21	147	20	136	20	149	20	178	20	163	23	146	23	187	19	160	21	167					26	158	21	160
November	24	226	18	187	22	172	14	164	13	160	14	150	16	165	15	193	13	176	13	159	16	203	15	175	14	181					20	178	15	175
December	26	252	26	213	24	196	26	190	24	184	23	173	25	190	23	216	24	200	27	186	23	226	24	199	24	205					30	208	25	200
RAINFALL.—AMOUNTS IN INCHES.																																
October	5·63	45·90	3·99	23·06	4·37	18·58	3·35	20·26	3·30	19·39	3·35	19·81	3·61	20·21	4·44	36·76	4·65	28·61	4·89	24·55	4·01	32·69	3·78	29·06	4·35	30·33					5·38	22·68	3·98	25·30
November	4·93	50·83	1·73	24·79	2·75	21·33	1·44	21·70	1·49	20·88	1·95	21·76	1·87	22·08	2·53	39·29	1·82	30·43	1·70	26·25	1·95	34·64	1·56	30·62	1·91	32·24					2·39	25·07	1·89	27·19
December	5·30	56·13	4·64	29·43	3·96	25·29	3·24	24·94	3·66	24·54	4·00	25·76	3·90	25·98	6·15	45·44	4·77	35·20	7·36	33·61	4·48	39·12	6·19	36·81	5·79	38·03					5·15	30·22	4·85	32·04
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																																
October	99	2035	114	2359	154	2622	192	2961	167	2933	234	3293	172	2832	146	2567	172	2872	206	3185	145	2691	171	3107	168	2886					280	3707	170	2861
November	83	2118	70	2429	66	2688	62	3023	49	2982	103	3396	70	2902	89	2656	79	2951	95	3280	98	2789	111	3218	94	2980					154	3861	82	2948
December	28	2146	16	2455	22	2710	29	3052	24	3006	58	3454	30	2932	40	2696	50	3001	79	3359	48	2837	100	3318	63	3043					149	4010	47	2990
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																																
October	64	370	72	483	26	353	30	418	38	410	16	253	36	381	47	281	26	227	23	178	40	202	39	128	35	204			0	39	36	294
November	76	446	107	590	101	454	148	566	161	571	96	349	123	503	86	367	95	322	111	289	83	285	94	222	94	298			7	46	109	403
December	174	620	194	784	154	608	180	746	191	762	115	464	167	670	149	516	117	439	95	384	155	440	112	334	126	424			21	67	147	550
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																																
October	64	935	80	1177	81	1140	78	1353	86	1222	89	1442	83	1268	79	1242	77	1174	98	1576	83	1107	90	1292	85	1278					99	1769	84	1275
November	31	966	46	1223	66	1206	102	1455	84	1306	113	1555	82	1350	69	1311	56	1230	116	1692	78	1185	93	1385	82	1360					99	1868	82	1357
December	24	990	27	1250	48	1254	54	1509	44	1350	53	1608	45	1395	38	1349	26	1256	62	1754	64	1249	65	1450	51	1411					58	1926	48	1405
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																																
October	22	24	27	30	27	29	26	35	29	32	29	38	28	33	27	32	26	32	32	41	28	28	30	33	29	33					32	47	29	33
November	10	23	16	29	21	29	33	35	27	32	35	37	26	32	23	32	18	32	36	41	26	28	30	33	27	33					30	45	27	33
December	11	22	11	28	19	28	21	34	17	31	19	36	17	31	15	31	10	31	23	40	25	28	25	33	20	33					21	44	19	32

1896.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-95. The whole of the values for 1878-96, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *October* are those for the fortieth to the forty-third weeks in the year; those for *November* are for the forty-fourth to the forty-eighth weeks; those for *December* are for the forty-ninth to the fifty-third weeks.

The figures given in the columns headed "From Dec. 29/95" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1896.

VOL. XIII. APPENDIX I. *New Series.* VALUES FOR THE WHOLE YEAR. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE WHOLE YEAR DURING THE THIRTY-ONE YEARS, 1866 TO 1896.

	YEARS.	0. Scotland, N.		Principal Wheat-producing Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		Principal Grazing, &c. Districts. 6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Graz-ing, &c. Districts.		Channel Islands.		Means for the British Islands generally.	
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in inches).	Means for 5 years, 1866–70	—	50·4	—	32·9	—	25·0	—	23·8	—	27·3	—	29·2	—	27·6	—	43·5	—	42·9	—	45·4	—	41·7	—	37·4	—	42·2	—	—	—	34·9
	Means for 5 years, 1871–75	—	47·8	—	35·4	—	26·5	—	24·6	—	30·1	—	31·4	—	29·6	—	44·7	—	44·0	—	52·0	—	40·3	—	39·6	—	44·1	—	—	—	36·9
	Means for 5 years, 1876–80	—	38·6	—	32·0	—	29·8	—	29·0	—	32·2	—	32·5	—	31·1	—	44·2	—	41·4	—	44·6	—	39·6	—	41·9	—	42·3	—	—	—	36·7
	Means for 5 years, 1881–85	241	37·1	198	26·4	188	25·5	187	27·2	186	29·0	177	27·4	187	27·1	216	48·1	198	36·6	211	40·7	236	38·6	217	41·7	216	41·1	222	33·8	202	34·1
	1886	263	39·1	204	24·9	199	29·2	193	26·2	202	33·1	195	32·9	199	29·3	218	48·1	214	43·0	218	46·5	234	42·8	227	46·3	222	45·3	251	38·6	211	37·3
	1887	241	41·6	183	24·4	174	20·6	166	19·1	148	19·2	150	21·5	164	21·0	181	38·7	163	24·9	159	28·3	188	32·3	159	28·5	170	30·5	181	26·2	167	25·8
	1888	242	43·9	208	30·4	187	25·6	188	24·2	175	26·8	184	28·5	188	27·1	200	46·5	200	31·1	208	38·4	217	36·9	197	39·9	205	38·6	228	31·9	199	32·9
	1889	245	42·0	197	26·0	182	24·1	189	26·3	175	26·8	175	25·6	185	25·8	211	42·4	197	32·4	197	35·9	232	38·5	210	37·6	209	37·4	210	30·2	200	31·6
	1890	264	55·1	222	32·9	193	25·0	184	22·7	182	22·0	180	25·4	192	25·6	224	52·8	210	35·0	218	38·1	246	38·8	229	41·4	225	41·2	216	33·1	209	33·4
	Means for 5 years, 1886–90	251	44·3	203	27·7	187	24·9	184	23·7	176	25·6	177	26·8	185	25·7	207	45·7	197	33·3	200	37·4	223	37·9	204	38·7	206	38·6	217	32·0	196	32·2
	1891	242	52·8	184	30·9	181	24·6	197	26·8	192	30·1	190	33·2	188	29·1	205	49·9	186	38·3	200	45·1	225	35·3	204	41·5	203	42·0	201	36·7	197	35·6
	1892	253	49·8	201	28·2	197	25·6	180	27·2	176	23·1	160	24·4	183	25·7	206	46·5	205	37·2	192	31·1	232	38·0	203	40·1	208	38·6	195	29·2	196	32·2
	1893	252	57·9	199	27·3	173	20·4	171	21·1	164	20·8	162	23·5	174	22·6	205	43·1	191	31·4	173	33·7	217	34·0	189	32·6	195	35·0	185	28·4	185	28·8
	1894	234	53·5	201	33·9	208	25·8	205	26·6	196	27·4	196	32·1	201	29·2	219	49·5	213	36·3	214	44·9	234	38·0	212	43·5	218	42·4	221	38·6	210	35·8
	1895	237	49·3	195	31·5	189	27·7	165	24·2	163	24·7	160	24·9	174	26·6	196	38·3	183	32·3	177	37·3	218	35·6	192	38·0	193	36·3	199	31·9	184	31·5
	Means for 5 years, 1891–95	244	52·7	196	30·4	190	24·8	184	25·2	178	25·2	174	27·6	184	26·6	206	45·5	196	35·1	191	38·4	225	36·2	200	39·1	204	38·9	200	33·0	194	32·8
	1896	252	56·2	213	29·5	196	25·3	190	24·9	184	24·6	173	25·8	191	26·0	216	45·4	200	35·2	186	33·7	226	39·2	199	36·8	205	38·1	208	30·2	198	32·1
	Means for 31 years, 1866–96	—	45·5	—	30·8	—	26·1	—	25·6	—	28·1	—	29·0	—	27·9	—	45·3	—	38·8	—	42·8	—	39·1	—	39·6	—	41·1	—	—	—	34·5
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866–70	45°·9		47°·2		47°·1		49°·0		49°·1		49°·5		48°·4		48°·1		48°·8		51°·3		48°·9		50°·0		49°·4		° —		48°·9	
	Means for 5 years, 1871–75	46·3		47·1		47·4		48·4		48·8		49·3		48·2		48·1		48·6		50·9		48·4		50·3		49·3		—		48·8	
	Means for 5 years, 1876–80	45·4		46·3		47·1		48·3		48·2		49·3		47·8		47·6		48·1		50·6		47·9		50·1		48·9		—		48·4	
	Means for 5 years, 1881–85	45·3		46·6		47·5		48·5		48·2		49·8		48·1		47·4		48·2		49·7		48·0		49·4		48·5		51·6		48·3	
	1886	44·3		45·6		46·4		47·5		47·4		49·0		47·2		46·3		47·1		48·8		47·0		48·7		47·6		51·2		47·4	
	1887	45·0		46·2		46·6		47·1		47·0		48·1		47·0		46·8		47·3		48·6		48·0		49·2		48·0		50·9		47·5	
	1888	44·4		45·1		46·1		47·0		46·7		48·2		46·6		46·7		47·1		48·3		47·5		48·9		47·7		50·8		47·2	
	1889	46·1		46·6		47·4		47·9		48·0		49·5		47·9		48·0		48·3		49·4		48·5		49·8		48·8		51·9		48·4	
	1890	46·0		46·6		47·6		47·7		47·5		49·1		47·7		47·7		48·1		49·2		48·4		49·7		48·6		51·3		48·2	
	Means for 5 years, 1886–90	45·2		46·1		46·8		47·4		47·3		48·8		47·3		47·1		47·6		48·9		47·9		49·3		48·2		51·2		47·8	
	1891	45·5		45·7		46·5		47·5		47·2		48·9		47·2		47·3		47·8		48·8		47·8		49·0		48·1		51·3		47·7	
	1892	43·9		44·2		45·7		46·8		46·3		48·4		46·3		45·9		46·8		48·4		47·0		48·5		47·3		51·4		46·8	
	1893	46·7		47·3		48·7		49·6		49·8		51·2		49·3		48·9		50·3		51·4		49·8		51·2		50·3		53·9		49·8	
	1894	46·5		46·2		47·6		48·8		48·6		50·4		48·3		48·0		49·3		50·1		48·5		50·0		49·2		52·7		48·8	
	1895	45·0		45·1		47·0		47·8		47·4		49·1		47·3		46·7		47·7		49·0		47·3		48·8		47·9		51·8		47·6	
	Means for 5 years, 1891–95	45·5		45·7		47·1		48·1		47·9		49·6		47·7		47·4		48·4		49·5		48·1		49·5		48·6		52·2		48·2	
	1896	46·4		46·9		48·1		48·7		48·5		50·3		48·5		48·3		49·2		50·3		48·7		50·3		49·4		52·9		49·0	
	Means for 31 years, 1866–96	45·6		46·5		47·2		48·3		48·3		49·4		47·9		47·6		48·4		50·1		48·2		49·8		48·8		—		48·4	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE THIRTY-ONE YEARS, 1866 TO 1896.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 21·0 in 1887	Ins. 30·5 in 1887	Ins. 25·8 in 1887
	Wettest	40·2 in 1872	58·0 in 1872	49·1 in 1872
Temperature	Coldest	45°·5 in 1879	46°·9 in 1879	46°·2 in 1879
	Warmest	50·1 in 1868	50·7 in 1868	50·4 in 1868

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the districts given as Table I. in the various Quarterly Summaries were obtained as follows. Those for the years 1866 to 1877 were derived from observations made at the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Loch Broom.
		Helmsdale.
		Sandwick Manse.
1. SCOTLAND, E.		Inverness.
		Aberdeen.
		Ballater.
		Logierait.
		Stirling.
		Hawick.
2. ENGLAND, N.E.		N. Shields.
		York.
		Grimsby.
		Boston.
3. ENGLAND, E.	1866 to 1875.	Fakenham.
		Beccles.
		Witham.
		Bury St. Edmunds.
	1876 &1877.	Yarmouth.
		Cambridge.
		Bury St. Edmunds.
4. MIDLAND COUNTIES		Leicester
		Derby.
		Tenbury.
		Shiffnal.
		Cirencester.
		Banbury.
		Hitchin.
5. ENGLAND, S.		Bridport.
		Selborne.
		Maidstone.
		London (Camden Town).
6. SCOTLAND, W.		Dumfries.
		Ayr.
		Castle Toward.
7. ENGLAND, N.W., and N. WALES		Llandudno.
		Manchester.
		Skipton.
8. ENGLAND, S.W., and S. WALES		Barnstaple.
		Bodmin.
		Haverfordwest.
		Rhayader.
9. IRELAND, N.		Galway.
		Bunninadden, Co. Sligo. (Doo Castle.)
		Waringstown.
		Strabane.
10. IRELAND, S.		Cork.
		Waterford.
		Killaloe.
		Portarlington.
		Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Sandwick Manse.
		Stornoway.
		Dunrobin.
1. SCOTLAND, E.		Culloden.
		Aberdeen.
		Perth.
		Leith.
2. ENGLAND, N.E.		Bywell.
		N. Shields.
		Hull.
3. ENGLAND, E.		Royston.
		Holkham.
		Norwich.
		Wisbeach.
		Somerleyton.
4. MIDLAND COUNTIES		Derby.
		Nottingham.
		Cardington.
		Oxford.
5. ENGLAND, S.		Marlborough.
		Greenwich.
		Streatley.
		London (Camden Town).
		Weybridge.
		Strathfield Turgiss.
		Osborne.
		Bournemouth.
		Worthing.
6. SCOTLAND, W.		Greenock.
		Cockermouth.
		Silloth.
		Carlisle.
7. ENGLAND, N.W., and N. WALES		Stonyhurst.
		Bradford.
		Leeds.
		Eccles.
		Liverpool.
		Llandudno.
8. ENGLAND, S.W., and S. WALES		Gloucester.
		Taunton.
		Barnstaple.
		Truro.
		Helston.
9. IRELAND, N.	1866 to 1873.	Belfast.
		Milltown (Banbridge).
		Armagh.†
		Athlone.*
	1874 to 1877.	Moville.
		Milltown.
		Armagh.
		Donaghadee.
10. IRELAND, S.	1866 to 1873.	Dublin.*
		Curragh Camp.
		Buttevant.*
		Cork.
		Valencia.†
	1874 to 1877.	Kingstown.
		Parsonstown.
		Cork.
		Roche's Point.
		Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General, by the Scottish Meteorological Society (in their Quarterly Journal), and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1896 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT, Secretary.

WEEKLY WEATHER REPORT, 1896.

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TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAINY DAYS IN EACH DISTRICT, DURING THE YEAR 1896.

NUMBERS OF DAYS WITH RAIN.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.																	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.		Channel Islands.		Means for the British Islands generally.	
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
1896.																														
Dec. 29/95–Jan. 4/96	5	5	5	5	5	5	5	5	4	4	3	3	4	4	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5
Jan. 5–11	5	10	2	7	3	8	3	8	2	6	2	5	2	6	2	7	0	0	0	0	2	7	0	5	1	6	1	6	1	6
12–18	7	17	6	13	4	12	4	12	4	10	4	9	5	11	6	13	5	9	6	10	6	13	5	10	5	11	6	12	5	11
19–25	5	22	3	16	2	14	3	15	3	13	3	12	3	14	4	17	4	13	4	14	4	17	4	14	4	15	5	17	4	15
Jan. 26–Feb. 1	5	27	3	19	2	16	2	17	2	15	2	14	2	16	5	22	3	16	2	16	4	21	3	17	3	18	2	19	2	17
Feb. 2–8	4	31	2	21	1	17	2	19	2	17	1	15	2	18	4	26	4	20	3	19	3	24	4	21	4	22	2	21	3	20
9–15	5	36	3	24	1	18	2	21	1	18	2	17	2	20	4	30	3	23	1	20	2	26	0	21	2	24	1	22	2	22
16–22	2	38	3	27	3	21	2	23	3	21	2	19	2	22	3	33	3	26	3	23	1	27	3	24	3	27	3	25	3	25
Feb. 23–29	5	43	3	30	2	23	3	26	2	23	1	20	2	24	5	38	3	29	2	25	5	32	4	28	4	31	3	28	3	28
Mar. 1–7	7	50	6	36	5	28	6	32	6	29	7	27	6	30	7	45	7	36	7	32	7	39	7	35	7	38	7	35	7	35
8–14	5	55	4	40	3	31	5	37	5	34	4	31	4	34	4	49	6	42	6	38	6	45	5	40	5	43	7	42	4	39
15–21	6	61	6	46	4	35	6	43	6	40	6	37	6	40	6	55	5	47	6	44	6	51	6	46	6	49	5	47	6	45
22–28	7	68	4	50	4	39	4	47	5	45	5	42	4	44	6	61	6	53	6	50	5	56	5	51	6	55	6	53	5	50
Mar. 29–April 4	6	74	4	54	4	43	5	52	2	47	3	45	3	47	2	63	3	56	1	51	5	61	4	55	3	58	1	54	3	53
Apr. 5–11	7	81	3	57	2	45	3	55	3	50	2	47	3	50	4	67	3	59	3	54	3	64	3	58	3	61	3	57	3	56
12–18	5	86	4	61	4	49	5	60	6	56	5	52	5	55	5	72	5	64	5	59	5	69	4	62	5	66	5	62	5	61
19–25	3	89	2	63	2	51	1	61	1	57	1	53	1	56	1	73	1	65	1	60	2	71	1	63	1	67	1	63	1	62
April 26–May 2	5	94	4	67	3	54	4	65	2	59	3	56	3	59	4	77	4	69	2	62	4	75	3	66	4	71	3	66	4	66
May 3–9	1	95	0	67	1	55	0	65	0	59	0	56	0	59	0	77	0	69	0	62	2	77	1	67	1	72	1	67	0	66
10–16	3	98	1	68	1	56	1	66	0	59	0	56	1	60	1	78	0	69	0	62	1	78	0	67	0	72	0	67	1	67
17–23	6	104	5	73	5	61	5	71	4	63	4	60	5	65	4	82	4	73	1	63	4	82	4	71	3	75	3	70	4	71
May 24–30	1	105	1	74	1	62	0	71	0	63	0	60	0	65	0	82	0	73	0	63	0	82	0	71	0	75	0	70	0	71
May 31–June 6	6	111	5	79	4	66	3	74	3	66	3	63	4	69	5	87	4	77	4	67	6	88	4	75	5	80	4	74	5	76
June 7–13	2	113	4	83	3	69	3	77	3	69	3	66	3	72	2	89	3	80	3	70	2	90	2	77	2	82	4	78	2	78
14–20	5	118	5	88	4	73	1	78	3	72	2	68	3	75	5	94	4	84	3	73	6	96	5	82	5	87	3	81	4	82
21–27	4	122	4	92	3	76	2	80	3	75	2	70	3	78	4	98	4	88	1	74	4	100	3	85	3	90	1	82	3	85
June 28–July 4	5	127	5	97	3	79	3	83	4	79	4	74	4	82	5	103	6	94	4	78	6	106	4	89	5	95	3	85	5	90
July 5–11	3	130	4	101	2	81	1	84	2	81	1	75	2	84	4	107	3	97	2	80	4	110	4	93	3	90	2	87	2	92
12–18	5	135	3	104	2	83	3	87	1	82	2	77	2	86	4	111	0	97	0	80	4	114	2	95	2	100	1	88	2	94
19–25	6	141	5	109	4	87	2	89	4	86	1	78	3	89	6	117	4	101	4	84	6	120	5	100	5	105	4	92	4	98
July 26–Aug. 1	2	143	2	111	3	90	3	92	3	89	3	81	3	92	3	120	3	104	3	87	3	123	3	103	3	108	4	96	3	101
Aug. 2–8	4	147	4	115	4	94	4	96	2	91	2	83	3	95	2	122	2	106	3	90	3	126	1	104	2	110	2	98	3	104
9–15	5	152	5	120	5	99	4	100	2	93	3	86	4	99	5	127	4	110	1	91	4	130	2	106	3	113	2	100	3	107
16–22	4	156	3	123	4	103	4	104	4	97	3	89	3	102	5	132	5	115	4	95	5	135	6	112	5	118	5	105	4	111
Aug. 23–29	7	163	6	129	4	107	4	108	5	102	4	93	5	107	6	138	6	121	5	100	6	141	5	117	6	124	5	110	6	117
Aug. 30–Sept. 5	3	166	5	134	5	112	5	113	6	108	6	99	5	112	3	141	6	127	4	104	5	146	4	121	4	128	4	114	5	122
Sept. 6–12	3	169	5	139	6	118	6	119	6	114	5	104	6	118	4	145	4	131	6	110	4	150	6	127	5	133	6	120	5	127
13–19	6	175	6	145	5	123	4	123	6	120	6	110	5	123	7	152	6	137	7	117	7	157	7	134	7	140	6	126	6	133
20–26	6	181	6	151	5	128	6	129	6	126	6	116	6	129	6	158	6	143	6	123	7	164	7	141	6	146	6	132	6	139
Sept. 27–Oct. 3	6	187	4	155	3	131	3	132	5	131	4	120	4	133	7	165	6	149	6	129	7	171	5	146	6	152	6	138	5	144
Oct. 4–10	6	193	6	161	5	136	5	137	6	137	6	126	5	138	7	172	7	156	7	136	7	178	7	153	7	159	6	144	6	150
11–17	3	196	3	164	7	143	7	144	6	143	6	132	6	144	2	174	2	158	5	141	3	181	2	155	3	162	7	151	5	155
18–24	6	202	5	169	7	150	6	150	4	147	4	136	5	149	4	178	5	163	5	146	6	187	5	160	5	167	7	158	5	160
Oct. 25–31	6	208	5	174	6	156	4	154	4	151	4	140	5	154	3	181	4	167	3	149	5	192	4	164	4	171	7	165	5	165
Nov. 1–7	3	211	3	177	5	161	4	158	2	153	3	143	3	157	1	182	2	169	1	150	2	194	2	166	1	172	3	168	2	167
8–14	6	217	4	181	5	166	3	161	2	155	3	146	3	160	5	187	2	171	2	152	3	197	3	169	3	175	3	171	3	170
15–21	6	223	4	185	3	169	2	163	3	158	3	149	3	163	5	192	4	175	5	157	5	202	4	173	5	180	5	176	4	174
22–28	3	226	2	187	3	172	1	164	2	160	1	150	2	165	1	193	1	176	2	159	1	203	2	175	1	181	2	178	1	175
Nov. 29–Dec. 5	4	230	5	192	4	176	5	169	5	165	5	155	5	170	5	198	5	181	5	164	4	207	5	180	5	186	6	184	5	180
Dec. 6–12	6	236	6	198	6	182	6	175	6	171	6	161	6	176	6	204	7	188	7	171	6	213	6	186	6	192	6	190	6	186
13–19	5	241	5	203	6	188	5	180	4	175	3	164	5	181	2	206	3	191	4	175	4	217	2	188	3	195	7	197	4	190
20–26	6	247	6	209	4	192	5	185	4	179	4	168	4	185	5	211	4	195	5	180	4	221	5	193	5	200	5	202	5	195
Dec. 27–Jan. 2/97	5	252	4	213	4	196	5	190	5	184	5	173	5	190	5	216	5	200	6	186	5	226	6	199	5	205	6	208	5	200

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TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT, DURING THE YEAR 1896.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.														Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.						
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
	Rainfall in Inches.																													
1896.																														
Dec. 29/95–Jan. 4/96	0·60	0·60	0·53	0·53	0·66	0·66	0·45	0·45	0·41	0·41	0·34	0·34	0·48	0·48	0·93	0·93	0·56	0·56	0·53	0·53	0·83	0·83	0·68	0·68	0·70	0·70	0·65	0·65	0·59	0·59
Jan. 5–11	0·25	0·85	0·04	0·57	0·09	0·75	0·10	0·55	0·06	0·47	0·07	0·41	0·07	0·55	0·07	1·00	0·00	0·56	0·01	0·54	0·06	0·89	0·01	0·69	0·03	0·73	0·02	0·67	0·05	0·64
12–18	2·76	3·61	0·69	1·26	0·44	1·19	0·36	0·91	0·25	0·72	0·22	0·63	0·39	0·94	1·20	2·20	0·91	1·47	0·50	1·04	1·05	1·94	0·45	1·14	0·82	1·55	0·33	1·00	0·60	1·24
19–25	1·62	5·23	0·20	1·46	0·09	1·28	0·53	1·44	0·34	1·06	0·40	1·03	0·31	1·25	0·49	2·69	0·54	2·01	0·66	1·70	0·42	2·36	0·57	1·71	0·54	2·09	0·37	1·37	0·43	1·67
Jan. 26–Feb. 1	1·37	6·60	0·35	1·81	0·13	1·41	0·12	1·56	0·13	1·19	0·15	1·18	0·17	1·42	0·93	3·62	0·25	2·26	0·17	1·87	0·49	2·85	0·48	2·19	0·46	2·55	0·23	1·60	0·32	1·99
Feb. 2–8	0·93	7·53	0·19	2·00	0·01	1·42	0·08	1·64	0·10	1·29	0·10	1·28	0·10	1·52	0·86	4·48	0·38	2·64	0·36	2·23	0·41	3·26	0·81	3·00	0·57	3·12	0·18	1·78	0·34	2·33
9–15	1·86	9·39	0·09	2·09	0·02	1·44	0·05	1·69	0·04	1·33	0·04	1·32	0·05	1·57	0·46	4·94	0·19	2·83	0·03	2·26	0·10	3·36	0·01	3·01	0·16	3·28	0·10	1·88	0·10	2·43
16–22	0·33	9·72	0·37	2·46	0·31	1·75	0·16	1·85	0·26	1·59	0·16	1·48	0·25	1·82	0·38	5·32	0·23	3·06	0·28	2·54	0·16	3·52	0·41	3·42	0·29	3·57	0·20	2·08	0·27	2·70
Feb. 23–29	1·46	11·18	0·27	2·73	0·20	1·95	0·22	2·07	0·26	1·85	0·07	1·55	0·20	2·02	1·11	6·43	0·84	3·90	0·19	2·73	1·22	4·74	0·62	4·04	0·80	4·37	0·23	2·31	0·50	3·20
Mar. 1–7	2·48	13·66	0·73	3·46	0·42	2·37	0·62	2·69	0·86	2·71	1·03	2·58	0·73	2·75	2·14	8·57	1·64	5·54	1·75	4·48	1·95	6·69	1·98	6·02	1·89	6·26	1·26	3·57	1·31	4·51
8–14	0·80	14·46	0·23	3·69	0·55	2·92	0·40	3·09	0·48	3·19	0·26	2·84	0·38	3·13	0·59	9·16	0·83	6·37	0·66	5·14	0·56	7·25	0·52	6·54	0·63	6·89	0·44	4·01	0·51	5·02
15–21	1·74	16·20	0·95	4·64	0·47	3·39	1·19	4·28	0·69	3·88	1·12	3·96	0·89	4·02	2·06	11·22	0·69	7·06	1·12	6·26	0·73	7·98	1·34	7·88	1·19	8·08	0·61	4·62	1·04	6·06
22–28	1·61	17·81	0·17	4·81	0·66	4·05	0·62	4·90	0·45	4·33	0·39	4·35	0·46	4·48	0·85	12·07	1·20	8·26	0·67	6·93	1·18	9·16	0·87	8·75	0·95	9·03	0·30	4·92	0·70	6·76
Mar. 29–April 4	0·52	18·33	0·15	4·96	0·18	4·23	0·42	5·32	0·08	4·41	0·13	4·48	0·19	4·67	0·07	12·14	0·09	8·35	0·03	6·96	0·17	9·33	0·13	8·88	0·10	9·13	0·04	4·96	0·15	6·91
April 5–11	1·62	19·95	0·35	5·31	0·14	4·37	0·20	5·52	0·23	4·64	0·06	4·54	0·20	4·87	0·74	12·88	0·37	8·72	0·24	7·20	0·48	9·81	0·36	9·24	0·44	9·57	0·23	5·19	0·32	7·23
12–18	0·87	20·82	0·35	5·66	0·23	4·60	0·51	6·03	0·49	5·13	0·36	4·90	0·39	5·26	0·89	13·77	0·59	9·31	0·43	7·63	0·76	10·57	0·38	9·62	0·61	10·18	0·23	5·42	0·50	7·73
19–25	0·19	21·01	0·08	5·74	0·05	4·65	0·03	6·06	0·02	5·15	0·02	4·92	0·04	5·30	0·05	13·82	0·08	9·39	0·08	7·71	0·12	10·69	0·09	9·71	0·08	10·26	0·02	5·44	0·06	7·79
April 26–May 2	0·95	21·96	0·29	6·03	0·19	4·84	0·18	6·24	0·10	5·25	0·15	5·07	0·18	5·48	0·54	14·36	0·56	9·95	0·09	7·80	0·52	11·21	0·19	9·90	0·38	10·64	0·14	5·58	0·28	8·07
May 3–9	0·03	21·99	0·01	6·04	0·01	4·85	0·00	6·24	0·00	5·25	0·00	5·07	0·01	5·49	0·00	14·36	0·00	9·95	0·00	7·80	0·23	11·44	0·07	9·97	0·06	10·70	0·04	5·62	0·04	8·11
10–16	0·08	22·07	0·04	6·08	0·03	4·88	0·02	6·26	0·01	5·26	0·00	5·07	0·02	5·51	0·08	14·44	0·00	9·95	0·00	7·80	0·01	11·45	0·01	9·98	0·02	10·72	0·00	5·62	0·02	8·13
17–23	1·30	23·37	0·83	6·91	0·65	5·53	0·50	6·76	0·35	5·61	0·22	5·29	0·51	6·02	0·64	15·08	0·48	10·43	0·04	7·84	0·54	11·99	0·18	10·16	0·38	11·10	0·19	5·81	0·44	8·57
May 24–30	0·04	23·41	0·01	6·92	0·02	5·55	0·00	6·76	0·00	5·61	0·00	5·29	0·01	6·03	0·00	15·08	0·00	10·43	0·00	7·84	0·01	12·00	0·00	10·16	0·00	11·10	0·00	5·81	0·01	8·58
May 31–June 6	1·07	24·48	1·12	8·04	0·78	6·33	0·41	7·17	0·78	6·39	0·42	5·71	0·70	6·73	1·06	16·14	0·66	11·09	0·63	8·47	0·78	12·78	0·67	10·83	0·76	11·86	0·98	6·79	0·73	9·31
June 7–13	0·26	24·74	0·80	8·84	0·36	6·69	1·21	8·38	0·75	7·14	1·23	6·94	0·87	7·60	0·34	16·48	0·34	11·43	0·57	9·04	0·27	13·05	0·26	11·09	0·36	12·22	0·52	7·31	0·62	9·93
14–20	1·53	26·27	0·56	9·40	0·36	7·05	0·05	8·43	0·35	7·49	0·20	7·14	0·30	7·90	1·46	17·94	0·50	11·93	0·56	9·60	1·48	14·53	1·23	12·32	1·04	13·26	0·34	7·65	0·67	10·60
21–27	0·53	26·80	0·41	9·81	0·23	7·28	0·29	8·72	0·60	8·09	0·19	7·33	0·34	8·24	0·47	18·41	0·71	12·64	0·08	9·68	0·68	15·21	0·26	12·58	0·44	13·70	0·02	7·67	0·39	10·99
June 28–July 4	0·86	27·66	0·39	10·20	0·10	7·38	0·11	8·83	0·29	8·38	0·36	7·69	0·25	8·49	0·70	19·11	0·58	13·22	0·28	9·96	0·70	15·91	0·27	12·85	0·51	14·21	0·21	7·88	0·38	11·37
July 5–11	0·48	28·14	1·06	11·26	0·57	7·95	0·39	9·22	0·48	8·86	0·01	7·70	0·50	8·99	1·69	20·80	1·44	14·66	0·35	10·31	1·87	17·78	2·00	14·85	1·47	15·68	0·10	7·98	0·98	12·35
12–18	0·57	28·71	0·23	11·49	0·13	8·08	0·42	9·64	0·05	8·91	0·26	7·96	0·22	9·21	0·23	21·03	0·01	14·67	0·00	10·31	0·54	18·32	0·20	15·05	0·20	15·88	0·08	8·06	0·21	12·56
19–25	1·74	30·45	1·76	13·25	0·83	8·91	0·07	9·71	0·47	9·38	0·13	8·09	0·65	9·86	2·04	23·07	1·46	16·13	1·21	11·52	2·07	20·39	1·74	16·79	1·70	17·58	0·69	8·75	1·18	13·74
July 26–Aug. 1	0·29	30·74	0·22	13·47	0·65	9·56	0·35	10·06	0·41	9·79	0·45	8·54	0·41	10·27	1·00	24·07	0·26	16·39	0·46	11·98	0·62	21·01	0·51	17·30	0·57	18·15	0·47	9·22	0·49	14·23
Aug. 2–8	0·19	30·93	0·28	13·75	0·60	10·16	0·61	10·67	0·31	10·10	0·54	9·08	0·47	10·74	0·05	24·12	0·13	16·52	0·27	12·25	0·09	21·10	0·03	17·33	0·12	18·27	0·77	9·99	0·29	14·52
9–15	0·83	31·76	0·60	14·35	0·41	10·57	0·28	10·95	0·10	10·20	0·46	9·54	0·37	11·11	0·62	24·74	0·18	16·70	0·06	12·31	0·42	21·52	0·13	17·46	0·28	18·55	0·27	10·26	0·33	14·85
16–22	0·74	32·50	0·21	14·56	0·34	10·91	0·60	11·55	0·49	10·69	0·35	9·89	0·40	11·51	0·69	25·43	0·69	17·39	0·39	12·70	0·87	22·39	0·82	18·28	0·69	19·24	0·39	10·65	0·55	15·40
Aug. 23–29	2·78	35·28	0·68	15·24	0·37	11·28	0·66	12·21	0·58	11·27	0·55	10·44	0·57	12·08	1·82	27·25	1·44	18·83	1·07	13·77	1·47	23·86	1·17	19·45	1·39	20·63	0·83	11·48	0·98	16·38
Aug. 30–Sept. 5	0·31	35·59	0·60	15·84	0·65	11·93	1·39	13·60	1·42	12·69	1·92	12·36	1·20	13·28	0·37	27·62	1·09	19·92	0·83	14·60	0·39	24·25	0·71	20·16	0·68	21·31	1·76	13·24	0·94	17·32
Sept. 6–12	0·23	35·82	0·93	16·77	0·70	12·63	1·42	15·02	1·42	14·11	1·23	13·59	1·14	14·42	0·67	28·29	0·63	20·55	1·28	15·88	0·77	25·02	1·97	22·13	1·06	22·37	1·20	14·44	1·10	18·42
13–19	2·51	38·33	0·89	17·66	0·38	13·01	0·53	15·55	0·68	14·79	0·84	14·43	0·66	15·08	1·87	30·16	1·28	21·83	1·37	17·25	1·28	26·30	1·13	23·26	1·39	23·76	0·90	15·34	1·03	19·45
20–26	1·94	40·27	1·41	19·07	1·20	14·21	1·36	16·91	1·60	16·39	2·03	16·46	1·52	16·60	2·16	32·32	2·13	23·96	2·41	19·66	2·38	28·68	2·02	25·28	2·22	25·98	1·96	17·30	1·87	21·32
Sept. 27–Oct. 3	1·42	41·69	0·54	19·61	0·16	14·37	0·12	17·03	0·36	16·75	0·27	16·73	0·29	16·89	0·86	33·18	0·95	24·91	0·93	20·59	0·95	29·63	0·87	26·15	0·91	26·89	0·70	18·00	0·60	21·92
Oct. 4–10	2·39	44·08	1·68	21·29	1·26	15·63	0·95	17·98	1·36	18·11	1·40	18·13	1·33	18·22	2·72	35·90	2·41	27·32	2·36	22·95	1·69	31·32	1·81	27·96	2·20	29·09	1·56	19·56	1·76	23·68
11–17	0·44	44·52	0·35	21·64	1·83	17·46	1·28	19·26	0·74	18·85	0·81	18·94	1·00	19·22	0·26	36·16	0·41	27·73	0·62	23·57	0·39	31·71	0·19	28·15	0·37	29·46	1·64	21·20	0·69	24·37
18–24	1·38	45·90	1·42	23·06	1·12	18·58	1·00	20·26	0·54	19·39	0·87	19·81	0·99	20·21	0·60	36·76	0·88	28·61	0·98	24·55	0·98	32·69	0·91	29·06	0·87	30·33	1·48	22·68	0·93	25·30
Oct. 25–31	1·35	47·25	0·69	23·75	1·09	19·67	0·27	20·53	0·43	19·82	0·66	20·47	0·63	20·84	0·23	36·99	0·46	29·07	0·51	25·06	0·63	33·32	0·42	29·48	0·45	30·78	1·04	23·72	0·54	25·84
Nov. 1–7	0·68	47·93	0·27	24·02	0·87	20·54	0·60	21·13	0·43	20·25	0·55	21·02	0·54	21·38	0·35	37·34	0·62	29·69	0·21	25·27	0·21	33·53	0·14	29·62	0·30	31·08	0·37	24·09	0·42	26·26
8–14	1·50	49·43	0·37	24·39	0·43	20·97	0·45	21·58	0·37	20·62	0·52	21·54	0·43	21·81	1·10	38·44	0·37	30·06	0·56	25·83	0·55	34·08	0·67	30·29	0·65	31·73	0·67	24·76	0·54	26·80
15–21	0·87	50·30	0·29	24·68	0·24	21·21	0·07	21·65	0·21	20·83	0·20	21·74	0·20	22·01	0·81	39·25	0·36	30·42	0·38	26·21	0·54	34·62	0·30	30·59	0·48	32·21	0·28	25·04	0·34	27·14
22–28	0·53	50·83	0·11	24·79	0·12	21·33	0·05	21·70	0·05	20·88	0·02	21·76	0·07	22·08	0·04	39·29	0·01	30·43	0·04	26·25	0·02	34·64	0·03	30·62	0·03	32·24	0·03	25·07	0·05	27·19
Nov. 29–Dec. 5	0·54	51·37	1·40	26·19	1·10	22·43	0·97	22·67	1·26	22·14	1·56	23·32	1·26	23·34	0·81	40·10	0·68	31·11	2·26	28·51	0·75	35·39	1·06	31·68	1·11	33·35	1·61	26·68	1·19	28·38
Dec. 6–12	0·97	52·34	1·31	27·50	0·79	23·22	0·76	23·43	0·87	23·01	0·73	24·05	0·89	24·23	1·52	41·62	1·30	32·41	1·56	30·07	1·07	36·46	1·71	33·39	1·43	34·78	1·32	28·00	1·16	29·54
13–19	0·51	52·85	0·61	28·11	0·90	24·12	0·27	23·70	0·27	23·28	0·81	24·86	0·57	24·80	0·09	41·71	0·29	32·70	1·34	31·41	0·45	36·91	0·89	34·28	0·62	35·40	1·20	29·20	0·59	30·13
20–26	1·80	54·65	0·74	28·85	0·64	24·76	0·68	24·38	0·60	23·88	0·47	25·33	0·63	25·43	1·54	43·25	0·96	33·66	1·25	32·66	0·66	37·57	0·90	35·18	1·06	36·46	0·59	29·79	0·85	30·98
Dec. 27–Jan. 2/97	1·48	56·13	0·58	29·43	0·53	25·29	0·56	24·94	0·66	24·54	0·43	25·76	0·55	25·98	2·19	45·44	1·54	35·20	0·95	33·61	1·55	39·12	1·63	36·81	1·57	38·03	0·43	30·22	1·06	32·04

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT, DURING THE YEAR 1896.

DATE. — LIMITS OF WEEKS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
	Day-Degrees above 42° Fahrenheit.																													
1896.																														
Dec. 9/95-Jan. 4/96	15	15	8	8	20	20	25	25	28	28	25	25	21	21	20	20	31	31	39	39	36	36	55	55	36	36	52	52	29	29
Jan. 5-11 - -	4	19	2	10	0	20	0	25	0	28	0	25	0	21	3	23	0	31	0	39	7	43	8	63	4	40	8	60	2	31
12-18 - -	3	22	7	17	12	32	13	38	27	55	25	50	17	38	23	46	23	54	27	66	26	69	33	96	26	66	40	100	21	52
19-25 - -	5	27	5	22	3	35	3	41	4	59	9	59	5	43	9	55	7	61	23	89	10	79	17	113	13	79	25	125	9	61
Jan. 26-Feb. 1 -	22	49	15	37	12	47	5	46	9	68	10	69	10	53	19	74	18	79	14	103	23	102	26	139	20	99	25	150	15	76
Feb. 2-8 - -	24	73	29	66	15	62	8	54	12	80	8	77	15	68	23	97	21	100	15	118	28	130	39	178	25	124	20	170	20	96
9-15 - -	24	97	28	94	27	89	30	84	31	111	29	106	29	97	29	126	27	127	32	150	27	157	34	212	30	154	40	210	30	126
16-22 - -	13	110	11	105	1	90	5	89	7	118	11	117	7	104	11	137	9	136	24	174	22	179	28	240	19	173	29	239	13	139
Feb. 23-29 - -	5	115	2	107	1	91	0	89	5	123	8	125	3	107	5	142	6	142	12	186	22	201	29	269	15	188	25	264	9	148
Mar. 1-7 - -	4	119	9	116	15	106	27	116	26	149	28	153	21	128	13	155	20	162	25	211	23	224	29	298	22	210	39	303	22	170
8-14 - -	8	127	11	127	16	122	33	149	32	181	33	186	25	153	16	171	24	186	42	253	27	251	48	346	31	241	60	363	28	198
15-21 - -	13	140	20	147	31	153	36	185	38	219	36	222	32	185	23	194	31	217	34	287	29	280	35	381	31	272	49	412	32	230
22-28 - -	23	163	34	181	38	191	46	231	46	265	51	273	43	228	27	221	31	248	37	324	29	309	36	417	32	304	57	469	37	267
Mar. 29-April 4 -	25	188	38	219	27	218	17	248	24	289	30	303	27	255	33	254	25	273	35	359	32	341	38	455	33	337	37	506	30	297
April 5-11 - -	28	216	48	267	58	276	53	301	54	343	60	363	55	310	44	298	48	321	53	412	49	390	55	510	50	387	63	569	53	350
12-18 - -	18	234	33	300	29	305	35	336	40	383	38	401	35	345	32	330	32	353	46	458	35	425	52	562	39	426	57	626	37	387
19-25 - -	46	280	61	361	52	357	56	392	64	447	53	454	57	402	57	387	57	410	57	515	62	487	61	623	59	485	66	692	58	445
April 26-May 2 -	30	310	40	401	39	396	51	443	49	496	55	509	47	449	38	425	42	452	48	563	41	528	46	669	43	528	62	754	45	490
May 3-9 - -	67	377	69	470	44	440	50	493	65	561	60	569	57	506	78	503	65	517	68	631	78	606	77	746	73	601	77	831	65	555
10-16 - -	75	452	85	555	71	511	79	572	91	652	101	670	85	591	94	597	99	616	115	746	102	708	106	852	103	704	113	944	94	649
17-23 - -	50	502	69	624	71	582	75	647	85	737	88	758	78	669	71	668	82	698	90	836	71	779	85	937	80	784	91	1040	79	728
May 24-June 30 -	73	575	85	709	65	647	74	721	82	819	90	848	79	748	86	754	81	779	97	933	83	862	99	1036	89	873	97	1137	84	812
31-June 6 -	50	625	69	778	98	745	120	841	124	943	122	970	107	855	84	838	111	890	105	1038	96	958	104	1140	100	973	121	1259	104	916
June 7-13 - -	83	708	94	872	106	851	130	971	127	1070	132	1102	118	973	108	946	123	1013	120	1158	111	1069	117	1257	116	1089	125	1384	117	1033
14-20 - -	100	808	116	988	132	983	143	1114	141	1211	151	1253	136	1109	120	1066	146	1159	147	1305	120	1189	124	1381	132	1221	142	1526	134	1167
21-27 - -	85	893	99	1087	106	1089	114	1228	115	1326	125	1378	112	1221	109	1175	113	1272	125	1430	106	1295	123	1504	115	1336	132	1658	113	1280
June 28 to July 4 -	74	967	90	1177	109	1198	121	1349	116	1442	132	1510	113	1334	94	1269	109	1381	127	1557	102	1397	122	1626	111	1447	137	1795	112	1392
July 5-11 - -	89	1056	104	1281	129	1327	153	1502	143	1585	160	1670	138	1472	107	1376	132	1513	144	1701	99	1496	116	1742	120	1567	154	1949	129	1521
12-18 - -	104	1160	118	1399	120	1447	131	1633	132	1717	146	1816	129	1601	112	1488	125	1638	139	1840	113	1609	125	1867	123	1690	143	2092	126	1647
19-25 - -	85	1245	103	1502	139	1586	153	1786	137	1854	156	1972	138	1739	104	1592	130	1768	137	1977	110	1719	126	1993	121	1811	160	2252	130	1777
July 26-Aug. 1 -	86	1331	92	1594	109	1695	126	1912	117	1971	134	2106	116	1855	99	1691	116	1884	119	2096	99	1818	113	2106	109	1920	141	2303	113	1890
Aug. 2-8 - -	76	1407	85	1679	95	1790	99	2011	97	2068	120	2226	99	1954	92	1783	102	1986	116	2212	90	1908	109	2215	102	2022	138	2531	100	1990
9-15 - -	85	1492	99	1778	116	1906	126	2137	121	2189	138	2364	120	2074	104	1887	116	2102	127	2339	106	2014	122	2337	115	2137	136	2667	117	2107
16-22 - -	79	1571	89	1867	97	2003	109	2246	103	2292	119	2483	103	2177	95	1982	109	2211	111	2450	97	2111	109	2446	104	2241	130	2797	104	2211
Aug. 23-29 - -	72	1643	81	1948	93	2096	103	2349	96	2388	117	2600	98	2275	92	2074	98	2309	108	2558	89	2200	106	2532	98	2339	125	2922	98	2309
30 Sept. 5 -	97	1740	97	2045	111	2207	116	2465	105	2493	123	2723	110	2385	106	2180	107	2416	109	2667	97	2297	95	2647	103	2442	125	3047	107	2416
Sept. 6-12 - -	88	1828	89	2134	108	2315	125	2590	112	2605	130	2853	113	2498	103	2283	113	2529	122	2789	106	2403	114	2761	112	2554	142	3189	112	2528
13-19 - -	68	1896	69	2203	93	2408	109	2699	95	2700	120	2973	97	2595	85	2368	100	2629	108	2897	83	2486	97	2858	95	2649	132	3321	96	2624
20-26 - -	40	1936	42	2245	60	2468	70	2769	66	2766	86	3059	65	2660	53	2421	71	2700	82	2979	60	2546	78	2936	69	2718	106	3427	67	2691
Sept. 27-Oct. 3 -	44	1980	55	2300	71	2539	72	2841	72	2838	85	3144	71	2731	69	2490	78	2778	81	3060	67	2613	81	3017	75	2793	103	3530	73	2764
Oct. 4-10 - -	30	2010	32	2332	46	2585	67	2908	53	2891	83	3227	56	2787	33	2523	50	2828	63	3123	33	2646	41	3058	44	2837	91	3621	50	2814
11-17 - -	18	2028	19	2351	25	2610	36	2944	28	2919	37	3264	29	2816	30	2553	30	2858	32	3155	31	2677	33	3091	31	2868	48	3669	30	2844
18-24 - -	7	2035	8	2359	12	2622	17	2961	14	2933	29	3293	16	2832	14	2567	14	2872	30	3185	14	2691	16	3107	18	2886	38	3707	17	2861
Oct. 25-31 - -	1	2036	5	2364	8	2630	17	2978	10	2943	31	3324	14	2846	8	2575	8	2880	16	3201	10	2701	11	3118	11	2897	30	3737	13	2874
Nov. 1-7 - -	10	2046	10	2374	11	2641	14	2992	11	2954	16	3340	13	2859	13	2588	11	2891	16	3217	13	2714	17	3135	14	2911	33	3770	13	2887
8-14 - -	22	2068	22	2396	19	2660	15	3007	12	2966	27	3367	19	2878	24	2612	22	2913	27	3244	25	2739	30	3165	25	2936	34	3804	22	2909
15-21 - -	14	2082	14	2410	12	2672	13	3020	12	2978	26	3393	15	2893	24	2636	23	2936	29	3273	28	2767	32	3197	27	2963	41	3845	21	2930
22-28 - -	26	2118	19	2429	16	2688	3	3023	4	2982	3	3396	9	2902	20	2656	15	2951	7	3280	22	2789	21	3218	17	2980	16	3861	13	2943
Nov. 29-Dec. 5 -	8	2126	3	2432	3	2691	4	3027	0	2982	8	3404	4	2906	5	2661	4	2955	19	3299	8	2797	22	3240	12	2992	27	3888	8	2951
Dec. 6-12 - -	8	2134	4	2436	8	2699	11	3038	10	2992	25	3429	12	2918	10	2671	18	2973	24	3323	19	2807	27	3267	18	3010	39	3927	15	2966
13-19 - -	0	2134	0	2436	0	2699	0	3038	0	2992	0	3429	0	2918	0	2671	0	2973	0	3323	0	2807	0	3267	0	3010	17	3944	0	2966
20-26 - -	1	2135	0	2436	0	2699	0	3038	0	2992	1	3430	0	2918	2	2673	0	2973	8	3331	2	2809	15	3282	5	3015	23	3967	3	2969
Dec. 27-Jan. 2/97 -	11	2146	9	2455	11	2710	14	3052	14	3006	24	3454	14	2932	23	2696	28	3001	28	3359	28	2837	36	3318	28	3043	43	4010	21	2990

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT, DURING THE YEAR 1896.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generality.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
	Day-Degrees below 42° Fahrenheit.																											
1896.																												
Dec. 29/95–Jan. 4/96	9	9	21	21	7	7	6	6	3	3	0	0	7	7	3	3	0	0	0	0	0	0	0	0	0	0	4	4
Jan. 5–11	31	40	38	59	30	37	32	38	39	42	32	32	34	41	29	32	27	27	29	29	22	22	22	22	26	26	17	17	30	34
12–18	34	74	33	92	23	60	29	67	14	56	11	43	22	63	12	44	8	35	3	32	6	28	0	22	6	32	0	17	14	48
19–25	32	106	42	134	38	98	45	112	42	98	26	69	39	102	32	76	30	65	14	46	29	57	18	40	25	57	0	17	32	80
Jan. 26–Feb. 1	12	118	29	163	24	122	31	143	26	124	26	95	27	129	8	84	6	71	15	61	14	71	10	50	11	68	2	19	19	99
Feb. 2–8	5	123	13	176	28	150	39	182	35	159	29	124	29	158	0	84	11	82	23	84	4	75	0	50	8	76	8	27	19	118
9–15	3	126	4	180	3	153	17	199	11	170	11	135	9	167	0	84	4	86	5	89	1	76	7	57	3	79	0	27	6	124
16–22	13	139	29	209	28	181	28	227	35	205	21	156	28	195	24	108	28	114	12	101	14	90	8	65	17	96	1	28	22	146
Feb. 23–Feb. 29	28	167	40	249	39	220	44	271	50	255	40	196	43	238	29	137	34	148	32	133	8	98	4	69	21	117	11	30	32	178
Mar. 1–7	30	197	34	283	22	242	14	285	11	266	8	204	18	256	22	159	9	157	3	136	14	112	5	74	11	128	0	39	14	192
8–14	33	230	37	320	25	267	16	301	12	278	2	206	17	273	26	185	11	168	0	136	11	123	0	74	10	138	0	39	13	205
15–21	25	255	30	350	15	282	16	317	17	295	7	213	17	290	12	197	11	179	4	140	16	139	9	83	10	148	0	39	14	219
22–28	9	264	15	365	9	291	4	321	10	305	0	213	8	298	9	206	8	187	2	142	11	150	4	87	7	155	0	39	8	227
Mar. 29–April 4	15	279	16	381	18	309	27	348	33	338	16	229	22	320	11	217	11	198	13	155	4	154	0	87	8	163	0	39	15	242
April 5–11	0	279	0	381	0	309	0	348	0	338	0	229	0	320	0	217	0	198	0	155	0	154	0	87	0	163	0	39	0	242
12–18	17	296	17	398	15	324	17	365	11	349	5	234	13	333	13	230	3	201	0	155	3	157	0	87	4	167	0	39	9	251
19–25	0	296	2	400	1	325	12	377	8	357	3	237	5	338	0	230	0	201	0	155	0	157	1	88	0	167	0	39	2	253
April 26–May 2	9	305	8	408	0	325	4	381	5	362	0	237	3	341	4	234	0	201	0	155	5	162	1	89	2	169	0	39	3	256
May 3–9	0	305	0	408	2	327	7	388	10	372	0	237	4	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	2	258
10–16	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
17–23	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
May 24–30	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
31–June 6	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
June 7–13	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
14–20	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
21–27	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
June 28–July 4	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
July 5–11	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
12–18	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
19–25	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
July 26–Aug. 1	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
Aug. 2–8	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
9–15	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
16–22	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
Aug. 23–29	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
30–Sept. 5	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
Sept. 6–12	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
13–19	0	305	0	408	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
20–26	1	306	3	411	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
Sept. 27–Oct. 3	0	306	0	411	0	327	0	388	0	372	0	237	0	345	0	234	0	201	0	155	0	162	0	89	0	169	0	39	0	258
Oct. 4–10	6	312	8	419	0	327	0	388	0	372	0	237	2	347	2	236	0	201	0	155	6	168	0	89	2	171	0	39	2	260
11–17	*31	343	31	450	0	327	0	388	5	377	0	237	7	354	18	254	3	204	5	160	12	180	12	101	10	181	0	39	9	269
18–24	27	370	33	483	26	353	30	418	33	410	16	253	27	381	27	281	23	227	18	178	22	202	27	128	23	204	0	39	25	294
Oct. 25–31	31	401	34	517	34	387	35	453	39	449	15	268	31	412	34	315	29	256	28	206	27	229	30	158	30	234	0	39	31	325
Nov. 1–7	26	427	33	550	28	415	34	487	44	493	29	297	34	446	35	350	33	289	37	243	31	260	41	199	35	269	0	39	34	359
8–14	8	435	10	560	11	426	30	517	31	524	18	315	20	466	6	356	12	301	16	259	11	271	10	209	11	280	0	39	16	375
15–21	11	446	26	586	26	452	28	545	33	557	14	329	26	491	9	365	15	316	16	275	13	284	10	219	13	293	0	39	19	394
22–28	0	446	4	590	2	454	21	566	14	571	20	349	12	503	2	367	6	322	14	289	1	285	3	222	5	298	7	46	9	403
Nov. 29–Dec. 5	30	476	39	629	27	481	31	597	34	605	21	370	31	534	26	393	26	348	12	301	28	313	10	232	20	318	3	49	25	428
Dec. 6–12	20	496	25	654	18	499	23	620	25	630	9	379	20	554	11	404	10	358	8	309	27	340	15	247	14	332	0	49	17	445
13–19	64	560	60	714	47	546	53	673	57	687	43	422	52	606	53	457	34	392	35	344	46	386	40	287	42	374	8	57	47	492
20–26	36	596	42	756	34	580	45	718	43	730	33	455	39	645	48	505	33	425	29	373	39	425	39	326	38	412	10	67	39	537
Dec. 27–Jan. 2/97	24	620	28	784	28	608	28	746	32	762	9	464	25	670	11	516	14	439	11	384	15	440	8	334	12	424	0	67	19	550

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT, REGISTERED DURING THE YEAR 1896.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
	Numbers of Hours of Bright Sunshine.																													
1896.																														
Dec. 29/95–Jan. 4/96	3	3	2	2	1	1	1	1	2	2	3	3	2	2	1	1	2	2	3	3	3	3	2	2	2	2	4	4	2	2
Jan. 5–11	5	8	7	9	2	3	2	3	2	4	3	6	3	5	9	10	3	5	8	11	4	7	8	10	6	8	5	9	4	6
12–18	3	11	7	16	10	13	10	13	8	12	6	12	8	13	6	16	8	13	10	21	5	12	6	16	7	15	13	22	8	14
19–25	5	16	15	31	14	27	15	28	12	24	12	24	14	27	9	25	6	19	12	33	16	28	16	32	12	27	9	31	13	27
Jan. 26–Feb. 1	4	20	19	50	24	51	16	44	16	40	15	39	18	45	10	35	8	27	20	53	12	40	11	43	12	39	23	54	15	42
Feb. 2–8	7	27	16	66	5	56	13	57	11	51	10	49	11	56	3	38	3	30	8	61	11	51	9	52	7	46	14	68	9	51
9–15	3	30	9	75	6	62	19	76	15	66	16	65	13	69	9	47	11	41	21	82	8	59	23	75	14	60	35	103	14	65
16–22	10	40	13	88	6	68	16	92	15	81	18	83	14	83	3	50	9	50	16	98	17	76	17	92	13	73	19	122	13	78
Feb. 23–29	12	52	11	99	19	87	26	118	24	105	31	114	22	105	10	60	13	63	22	120	15	91	15	107	15	88	36	158	19	97
Mar. 1–7	14	66	30	129	25	112	19	137	16	121	15	129	21	126	15	75	15	78	17	137	10	101	12	119	14	102	20	178	17	114
8–14	23	89	14	143	16	128	14	151	13	134	12	141	14	140	19	94	8	86	11	148	10	111	8	127	11	113	17	195	13	127
15–21	24	113	34	177	23	151	17	168	20	154	16	157	22	162	30	124	21	107	23	171	36	147	32	159	28	141	18	213	25	152
22–28	21	134	27	204	31	182	36	204	34	188	45	202	35	197	31	155	27	134	35	206	21	168	31	190	29	170	43	256	32	184
Mar. 29–April 4	20	154	35	239	26	208	22	226	24	212	27	229	27	224	35	190	31	165	40	246	13	181	14	204	26	196	43	299	27	211
April 5–11	12	166	31	270	41	249	24	250	25	237	17	246	27	251	27	217	28	193	27	273	20	201	22	226	25	221	31	330	26	237
12–18	35	201	38	308	37	286	36	286	37	274	30	276	36	287	43	260	43	236	31	304	23	224	27	253	33	254	36	366	34	271
19–25	23	224	39	347	36	322	49	335	41	315	43	319	42	329	33	293	41	277	52	356	39	263	48	301	43	297	57	423	43	314
April 26–May 2	27	251	36	383	35	357	52	387	43	358	44	363	42	371	40	333	35	312	57	413	47	310	51	352	46	343	58	481	44	358
May 3–9	62	313	58	441	58	415	53	440	59	417	63	426	58	429	60	393	68	380	73	486	51	361	57	409	62	405	71	552	60	418
10–16	60	373	62	503	58	473	65	505	64	481	70	496	64	493	68	461	66	446	75	561	67	428	73	482	70	475	83	635	67	485
17–23	26	399	30	533	25	498	23	528	33	514	34	530	29	522	44	505	40	486	59	620	29	457	33	515	41	516	58	693	35	520
May 24–30	56	455	55	588	32	530	54	582	47	561	60	590	50	572	75	580	55	541	75	695	77	534	77	592	72	588	74	767	61	581
31–June 6	16	471	30	618	43	573	69	651	57	618	72	662	54	626	43	623	45	586	54	749	43	577	60	652	49	637	60	827	52	633
June 7–13	36	507	17	635	25	598	51	702	31	649	48	710	34	660	41	664	41	627	49	798	43	622	48	700	45	682	57	884	40	673
14–20	40	547	51	686	61	659	66	768	64	733	66	776	62	722	53	717	63	690	66	864	48	670	55	755	57	739	72	956	59	732
21–27	23	570	41	727	46	705	42	810	41	754	51	827	44	766	50	767	42	732	66	930	21	691	31	786	42	781	73	1029	43	775
June 28–July 4	20	590	42	769	47	752	44	854	38	792	41	868	42	808	31	798	31	763	52	982	29	720	40	826	36	817	55	1084	39	814
July 5–11	31	621	31	800	43	795	70	924	48	840	69	937	52	860	27	825	41	804	45	1027	28	748	33	859	35	852	52	1136	43	857
12–18	20	641	43	843	35	830	48	972	44	884	57	994	46	906	37	862	54	858	75	1102	26	774	37	896	46	898	74	1210	46	903
19–25	20	661	27	870	43	873	48	1020	43	927	59	1053	44	950	22	884	40	898	48	1150	18	792	27	923	31	929	68	1278	38	941
July 26–Aug. 1	30	691	36	906	31	904	50	1070	36	963	54	1107	41	991	44	928	36	934	47	1197	36	828	43	966	41	970	59	1337	41	982
Aug. 2–8	25	716	26	932	13	917	25	1095	24	987	33	1140	24	1015	44	972	27	961	54	1251	38	866	48	1014	42	1012	60	1397	33	1015
9–15	24	740	28	960	26	943	30	1125	32	1019	36	1176	31	1046	49	1021	26	987	49	1300	31	897	38	1052	39	1051	58	1455	35	1050
16–22	20	760	33	993	28	971	37	1162	32	1051	47	1223	35	1081	33	1054	33	1020	41	1341	19	916	18	1070	29	1080	48	1503	32	1082
Aug. 23–29	25	785	32	1025	27	998	31	1193	23	1074	32	1255	29	1110	33	1087	23	1043	34	1375	23	939	18	1088	26	1106	47	1550	27	1109
30–Sept. 5	23	808	15	1040	4	1002	10	1203	6	1080	24	1279	12	1122	22	1109	8	1051	22	1397	22	961	27	1115	20	1126	26	1576	16	1125
Sept. 6–12	17	825	7	1047	9	1011	13	1216	8	1088	16	1295	11	1133	8	1117	12	1063	24	1421	12	973	22	1137	16	1142	33	1609	14	1139
13–19	22	847	33	1080	31	1042	33	1249	28	1116	28	1323	30	1163	27	1144	20	1083	28	1449	27	1000	37	1174	28	1170	33	1642	29	1168
20–26	24	871	17	1097	17	1059	26	1275	20	1136	30	1353	22	1185	19	1163	14	1097	29	1478	24	1024	28	1202	23	1193	28	1670	23	1191
Sept. 27–Oct. 3	13	884	22	1119	25	1084	26	1301	23	1159	29	1382	25	1210	17	1180	17	1114	25	1503	13	1037	19	1221	18	1211	28	1698	21	1212
Oct. 4–10	18	902	28	1147	17	1101	25	1326	22	1181	21	1403	23	1233	15	1195	16	1130	25	1528	15	1052	21	1242	19	1230	27	1725	21	1233
11–17	18	920	16	1163	15	1116	7	1333	15	1196	12	1415	13	1246	29	1224	26	1156	24	1552	36	1088	32	1274	29	1259	20	1745	21	1254
18–24	15	935	14	1177	24	1140	20	1353	26	1222	27	1442	22	1268	18	1242	18	1174	24	1576	19	1107	18	1292	19	1278	24	1769	21	1275
Oct. 25–31	10	945	11	1188	16	1156	33	1386	25	1247	38	1480	25	1293	25	1267	12	1186	35	1611	22	1129	19	1311	22	1300	25	1794	23	1298
Nov. 1–7	8	953	21	1209	21	1177	27	1413	25	1272	28	1508	24	1317	17	1284	16	1202	29	1640	19	1148	26	1337	21	1321	23	1817	22	1320
8–14	1	954	4	1213	9	1186	13	1426	12	1284	15	1523	11	1328	10	1294	12	1214	20	1660	15	1163	21	1358	16	1337	19	1836	14	1334
15–21	9	963	9	1222	19	1205	23	1449	18	1302	21	1544	18	1346	11	1305	13	1227	22	1682	16	1179	17	1375	16	1353	21	1857	17	1351
22–28	3	966	1	1223	1	1206	6	1455	4	1306	11	1555	4	1350	6	1311	3	1230	10	1692	6	1185	10	1385	7	1360	11	1868	6	1357
Nov. 29–Dec. 5	7	973	7	1230	9	1215	14	1469	11	1317	15	1570	11	1361	5	1316	7	1237	13	1705	13	1198	14	1399	10	1370	11	1879	10	1367
Dec. 6–12	2	975	1	1231	1	1216	2	1471	3	1320	6	1576	3	1364	4	1320	1	1238	14	1719	13	1211	16	1415	10	1380	14	1893	7	1374
13–19	8	983	6	1237	15	1231	9	1480	9	1329	8	1584	9	1373	15	1335	6	1244	15	1734	19	1230	18	1433	15	1395	13	1906	12	1386
20–26	4	987	4	1241	8	1239	8	1488	6	1335	9	1593	7	1380	3	1338	3	1247	9	1743	8	1238	6	1439	6	1401	9	1915	7	1393
Dec. 27–Jan. 2/97	3	990	9	1250	15	1254	21	1509	15	1350	15	1608	15	1395	11	1349	9	1256	11	1754	11	1249	11	1450	10	1411	11	1926	12	1405

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES FOR THE PERCENTAGES OF THE POSSIBLE DURATION OF BRIGHT SUNSHINE IN EACH DISTRICT, WHICH WAS ACTUALLY RECORDED DURING THE YEAR 1896.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.															
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.		Channel Islands.		Means for the British Islands generally.	
	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.	Weekly.	From Dec. 29/95.
	Percentages of Possible Duration.																													
1896.																														
Dec. 29/95-Jan. 4/96	7	7	4	4	1	1	3	3	3	3	5	5	3	3	2	2	4	4	6	6	5	5	4	4	4	4	7	7	4	4
Jan. 5-11	10	9	15	9	5	3	4	3	4	4	5	5	7	5	17	10	5	7	15	10	7	7	15	9	12	9	9	9	10	7
12-18	6	8	15	11	19	9	18	8	14	7	10	7	15	8	11	10	14	11	17	12	10	8	11	10	13	10	21	13	14	9
19-25	10	8	28	15	24	13	26	13	21	11	19	10	24	12	16	12	11	12	19	14	28	13	27	15	20	13	14	13	22	13
Jan. 26-Feb. 1	8	8	33	19	40	19	27	16	27	15	27	14	31	17	17	13	13	14	31	18	20	15	18	15	20	15	36	17	16	16
Feb. 2-8	12	9	27	21	8	17	21	16	17	15	16	14	18	17	5	12	5	13	13	17	17	15	15	15	11	14	21	17	15	16
9-15	4	8	14	20	9	15	29	18	23	16	24	15	20	17	13	12	17	14	31	19	12	15	34	18	21	16	51	23	20	16
16-22	14	9	19	20	8	14	22	19	21	17	25	17	19	17	5	11	13	15	23	20	24	16	24	19	18	16	27	23	19	17
Feb. 23-29	16	10	16	19	26	16	35	21	33	19	41	20	30	19	14	11	18	15	29	21	20	17	20	19	20	17	49	27	25	18
Mar. 1-7	19	11	39	22	32	18	24	22	21	19	19	20	27	20	20	12	19	16	22	21	13	16	16	19	18	17	26	27	23	19
8-14	30	13	17	21	20	18	18	21	16	19	15	19	17	20	24	14	10	16	14	20	13	16	10	18	14	17	21	26	16	19
15-21	30	15	41	23	28	19	21	21	25	19	20	19	27	20	36	16	25	17	28	21	43	19	39	20	34	19	22	25	30	19
22-28	24	16	32	24	35	21	42	23	30	21	52	23	40	22	35	18	31	18	41	23	24	19	35	22	33	20	51	28	37	21
Mar. 29-April 4	22	17	39	26	29	22	24	23	26	22	29	23	29	23	40	20	34	20	44	25	15	19	16	21	30	21	48	30	30	22
Apr. 5-11	13	16	33	26	44	24	26	24	27	22	18	23	30	24	29	21	31	22	28	25	21	19	23	21	26	22	34	31	28	23
12-18	35	18	38	27	38	25	37	25	38	24	31	24	36	25	45	23	44	24	33	26	24	19	27	22	35	23	38	31	36	24
19-25	22	18	38	28	35	26	50	27	41	25	43	25	41	26	33	24	41	25	53	28	39	21	48	24	43	24	58	33	42	25
April 26-May 2	26	19	34	29	34	26	50	28	42	26	43	26	41	27	39	25	34	26	56	30	45	23	50	26	45	26	58	35	43	27
May 3-9	57	22	54	31	54	28	51	30	56	28	61	29	55	29	56	27	64	29	70	33	47	25	54	28	58	28	69	37	56	29
10-16	53	24	55	32	53	30	61	32	59	30	66	31	59	31	62	29	62	32	70	35	61	27	68	31	65	31	78	40	62	31
17-23	22	24	27	32	22	30	21	31	30	31	31	31	26	31	39	30	36	32	54	37	26	27	30	31	37	31	54	40	32	31
May 24-30	47	25	47	33	28	29	49	32	42	31	54	33	44	32	65	32	48	33	68	38	67	30	69	33	63	33	68	42	54	33
31-June 6	14	25	25	32	37	30	61	34	50	32	64	35	47	33	37	33	39	33	49	39	37	30	52	34	43	34	54	43	45	33
June 7-13	30	25	14	31	22	29	45	35	27	32	42	35	30	32	35	33	35	34	44	39	38	31	41	34	39	34	51	43	35	33
14-20	32	25	42	32	51	31	58	36	55	33	58	36	53	34	45	33	54	35	58	40	41	31	47	35	49	35	64	44	51	35
21-27	18	25	34	32	39	31	37	36	35	33	45	37	38	34	42	34	35	35	58	41	17	30	27	35	36	35	65	45	37	35
June 28-July 4	16	25	34	32	40	32	38	36	33	33	36	37	36	34	27	33	27	35	46	41	25	30	35	35	32	35	49	46	34	35
July 5-11	25	25	26	32	36	32	61	37	42	34	61	38	45	35	23	33	36	35	39	41	24	30	29	35	30	35	47	46	38	35
12-18	16	24	36	32	30	32	43	37	39	34	52	38	40	35	32	33	47	35	68	43	22	30	33	34	40	35	68	47	40	35
19-25	18	24	24	32	38	32	43	38	39	34	54	39	40	35	20	32	36	35	44	43	16	29	24	34	28	35	63	47	34	35
July 26-Aug. 1	26	24	32	32	28	32	47	38	33	34	50	39	38	35	40	33	33	35	44	43	32	29	40	34	33	35	56	48	38	35
Aug. 2-8	23	24	24	31	12	31	24	37	22	34	31	39	23	34	41	33	26	35	52	43	35	29	45	35	40	35	58	48	32	35
9-15	22	24	27	31	25	31	30	37	31	34	35	39	30	34	47	33	25	35	48	43	29	29	37	35	37	35	57	48	34	35
16-22	20	24	32	31	28	31	37	37	32	34	47	39	35	34	33	33	33	35	41	43	19	29	18	34	29	35	48	49	32	35
Aug. 23-29	25	24	32	31	27	31	32	37	23	34	33	39	29	34	34	33	24	35	36	43	23	29	18	34	27	35	50	49	28	35
30-Sept. 5	25	24	15	31	4	30	11	36	6	33	25	39	12	34	24	33	9	34	24	42	24	29	20	34	22	34	28	48	17	34
Sept. 6-12	18	24	8	30	10	29	15	36	9	32	17	38	12	33	9	32	14	33	27	42	13	28	24	33	17	34	37	48	15	34
13-19	26	24	37	30	36	30	38	36	32	32	33	38	35	33	32	32	23	33	32	42	31	28	43	34	32	34	38	48	34	34
20-26	28	24	21	30	21	29	31	36	24	32	36	38	27	33	23	32	17	33	35	41	29	28	34	34	28	34	34	47	28	34
Sept. 27-Oct. 3	16	24	27	30	31	29	32	36	28	32	35	38	31	33	21	32	21	32	31	41	15	28	23	33	22	33	34	47	27	33
Oct. 4-10	24	24	37	30	23	29	32	35	29	32	27	38	30	33	19	32	20	32	31	41	19	28	27	33	23	33	35	47	27	33
11-17	24	24	22	30	20	29	9	35	20	32	15	37	17	33	40	32	35	32	32	41	48	28	43	33	42	33	27	46	30	33
18-24	22	24	21	30	34	29	20	35	37	32	38	37	32	33	26	32	26	32	33	41	28	28	25	33	28	33	33	46	30	33
Oct. 25-31	16	24	17	30	24	29	49	35	38	32	56	38	37	33	30	32	18	32	51	41	34	28	29	33	34	33	36	46	36	33
Nov. 1-7	12	23	34	30	33	29	42	35	40	32	44	38	30	33	28	32	25	32	44	41	30	28	40	33	34	33	34	46	36	33
8-14	1	23	8	29	15	29	22	35	19	32	28	37	17	32	16	32	20	32	31	41	25	28	34	33	25	33	29	45	21	33
15-21	17	23	17	29	33	29	40	35	31	32	35	37	31	32	20	31	22	32	36	41	28	28	28	33	27	33	35	45	29	33
22-28	5	23	3	29	2	29	10	35	8	32	19	37	8	32	12	31	5	32	17	40	11	28	18	33	13	33	18	45	11	33
Nov. 29-Dec. 5	15	23	14	29	17	29	26	35	20	31	27	37	21	32	10	31	12	31	24	40	25	28	25	33	19	33	19	44	20	33
Dec. 6-12	4	23	1	29	1	28	3	34	6	31	11	37	4	32	7	31	3	31	25	40	26	28	31	33	19	33	25	44	12	33
13-19	17	22	13	28	30	28	18	34	17	31	14	36	18	31	31	31	13	31	27	40	39	28	35	33	29	33	23	44	24	32
20-26	10	22	8	28	16	28	15	34	12	31	16	36	13	31	6	30	6	30	17	39	15	28	12	33	11	32	17	43	12	32
Dec. 27-Jan. 2/97	7	22	19	28	30	28	41	34	28	31	27	36	29	31	22	30	17	30	20	39	22	28	21	33	21	32	20	43	25	32